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SUMMARY OF
SYNOPTIC METEOROLOGICAL OBSERVATIONS^{B.5}
(SSMO)

AUSTRALIAN COASTAL MARINE AREAS

VOLUME 1

AREA 1 - PRINCESS CHARLOTTE BAY

AREA 2 - CAIRNS

AREA 3 - CUMBERLAND ISLANDS

AREA 4 - ROCKHAMPTON

AREA 5 - BRISBANE

AREA 6 - COFFS HARBOUR

AREA 7 - SYDNEY

AREA 8 - CAPE HOWE NE



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PREPARED BY

THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR

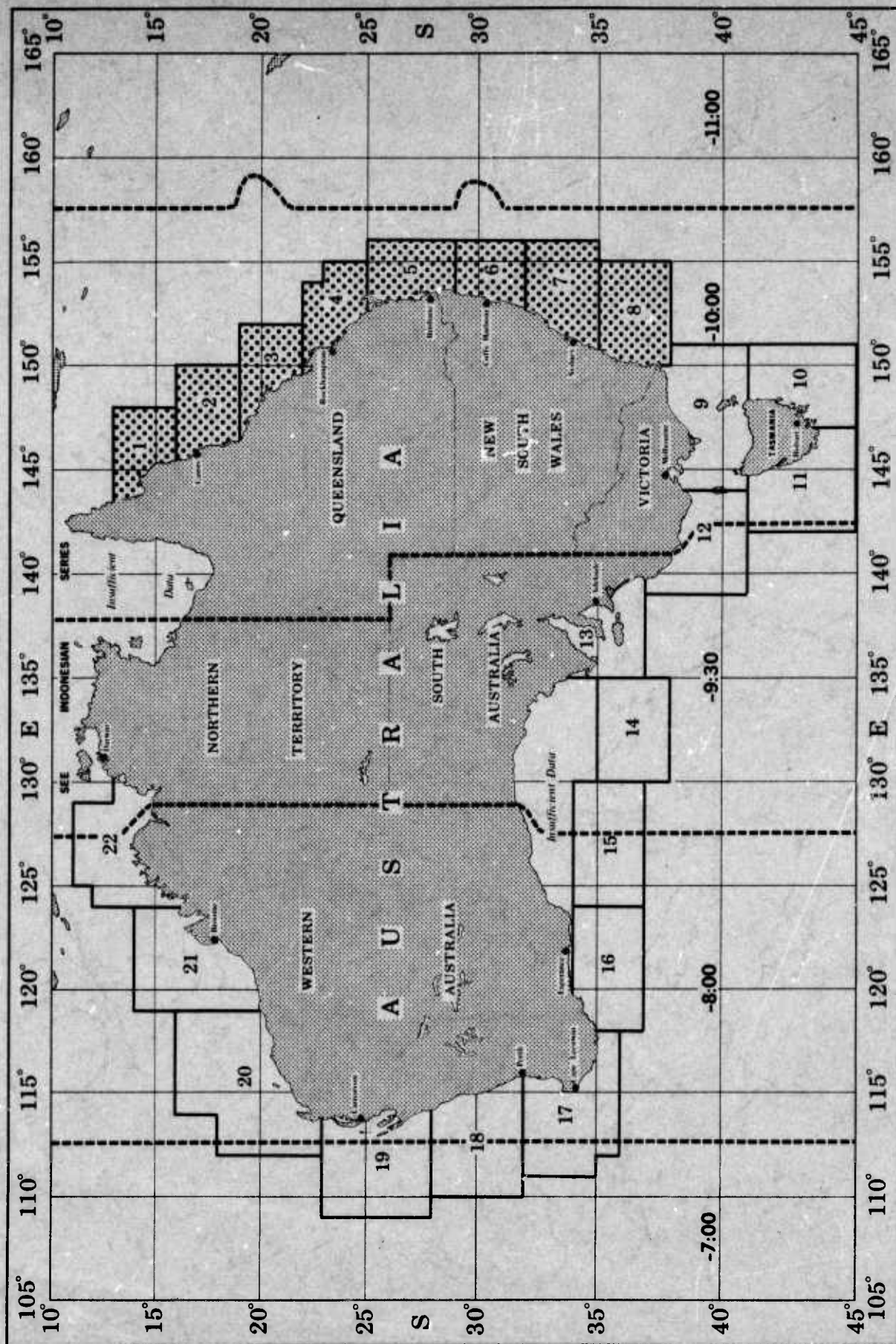
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AUSTRALIAN COASTAL MARINE SSMO AREAS AND STANDARD TIME ZONES

Shaded areas are included in this volume

A list of the area names and their central locations appears on the inside back cover

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SECURITY CLASSIFICATION OF THIS PAGE (When Data Entered)

REPORT DOCUMENTATION PAGE		READ INSTRUCTIONS BEFORE COMPLETING FORM
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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This report presents marine climatological data for specific coastal areas in 21 different tables including weather occurrence, wind direction and speed, cloud amount, ceiling height, visibility, precipitation, dry bulb, relative humidity, air-sea temperature difference, sea height and period, sea surface temperature and sea level pressure.		

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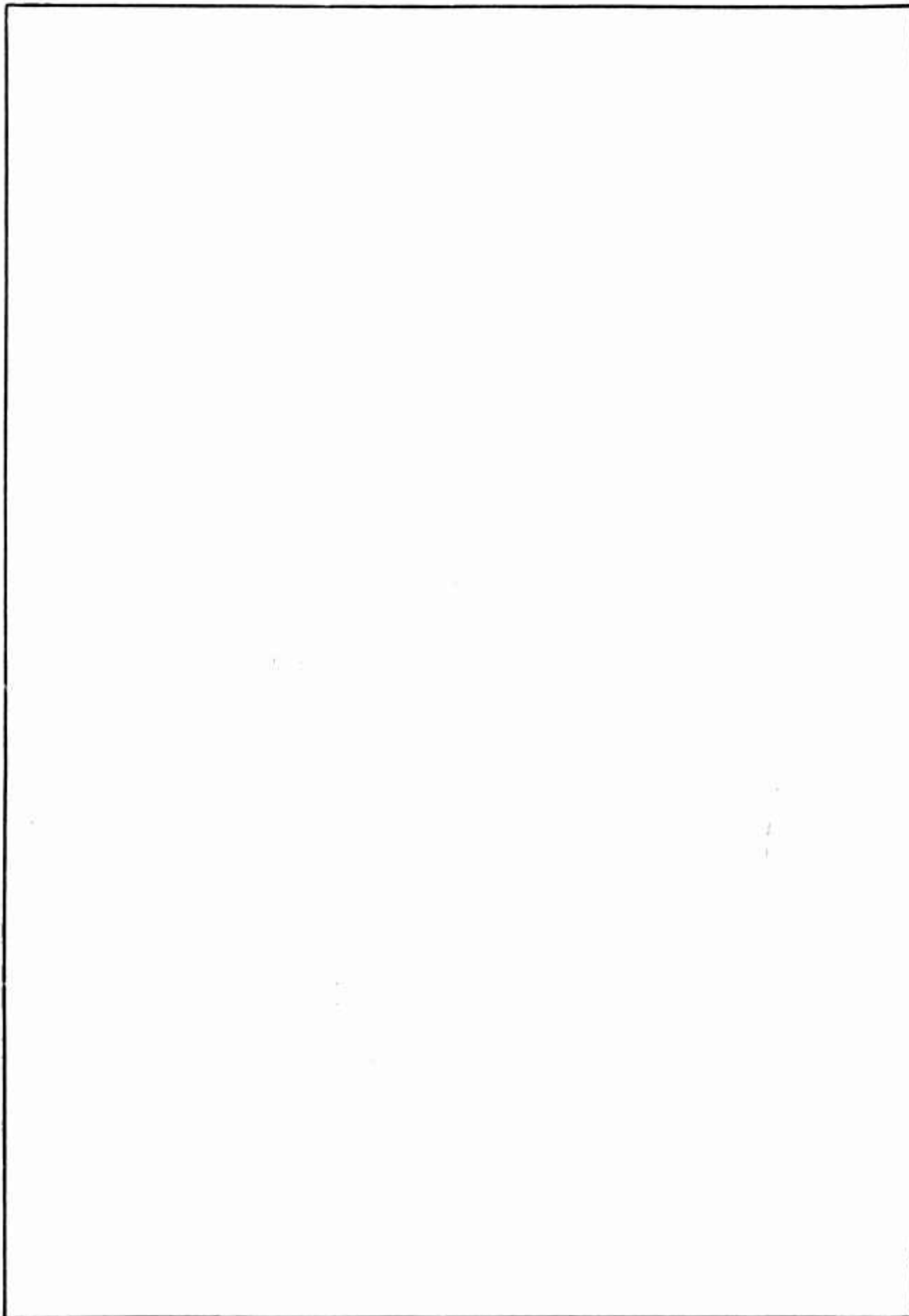
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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (SSMO)

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PREPARED BY
THE NAVAL WEATHER SERVICE DETACHMENT, ASHEVILLE, N.C.
FOR
THE DIRECTOR, NAVAL OCEANOGRAPHY AND METEOROLOGY

11 Sep '77

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SUMMARY OF SYNOPTIC METEOROLOGICAL OBSERVATIONS (MONTHLY AND ANNUAL)

The SSMO series of coastal marine summaries is maintained and produced by the Naval Weather Service Detachment, Asheville, N. C. for the Director, Naval Oceanography and Meteorology. A list of published SSMO's is contained in the catalogue part of the "Guide to Standard Weather Summaries and Climatic Services", NAVAIR 50-1C-534.

The data summarized in the following tables were obtained from Tape Data Family 11 (TDF-11) Marine Surface Observations. The development and maintenance of TDF-11 was primarily funded by the Naval Weather Service Command. The source of these marine surface observations was punched cards of weather observations taken aboard vessels of varying registry. These observations were recorded on magnetic tape in a common format. Elements not in WMO code were converted to this code where possible. Where this was not possible, the original data were retained within the tape record as supplemental data. A very limited quality control was attempted as the punched cards were converted to taped records and, where possible, missing psychrometric data were computed.

Before the tables are prepared, extreme values of selected parameters are scrutinized so that obvious errors can be excluded. This method is necessarily subjective since the only available record of many observations is the punched card from which the tape records were prepared. Frequently there

Percentage frequencies are computed to hundredths and rounded to tenths. An asterisk (*) indicates percentage frequency > 0 and $< .05$. A value followed by a plus sign indicates greater than or equal to that value (8+ means 8 or greater). NH = low cloud amount (or middle cloud amount when low clouds are not present). The hours given in this publication are GMT.

The geographic position shown on the tables is the central position (centroid) of the observations within the area.

is no concrete evidence to prove or disprove the validity of questionable data.

Also, it should be noted that these data are based upon observations made by ship's message. Such ships tend to avoid bad weather when possible, thus biasing the data file toward good weather samples.

Because the number of observations may vary from one table to the other, no absolute relationship exists between the tables. As an example, air temperature counts for Tables 13 and 17 may not be identical since only observations containing both air temperature and relative humidity were counted in Table 13 and only those with both temperature and air-sea temperature difference were counted in Table 17. No requirement for simultaneous recording of all elements was made.

The primary period of record is that period (extending back in time from the most recent data) during which eighty percent of the total number of observations were recorded. The overall period is the earliest to the latest observed data used in compiling the tables. Tables 18 and 19 were tabulated from selected decks only and the overall period indicates the period of record of this data source. The primary period for these tables is not shown.

THE TABLES

This value may fall outside irregular areas.

Annual values are computed on the basis of the sum of the monthlies divided by the number of months.

Tables 1 through 19 appear in numerical order for each month, with the annual tables appearing after the tables for December. Tables 20 and 21 appear at the end of the entire series, after the annual summary for Table 19. The series of summaries appear in numerical order by area number.

Table Section <input checked="" type="checkbox"/>	
B ft Section <input type="checkbox"/>	
DIST. AREA CODE OF SPECIAL	
A	

Table 1 - Percentage Frequency of Weather Occurrence by Wind Direction (8 pts.).

Table 2 - Percentage Frequency of Weather Occurrence by Hour (GMT).

Table 3 - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction (8 pts.).

Table 3A - Percentage Frequency of Wind Direction (8 pts.) by Speed and by Hour (GMT). This table includes mean wind speed (kts.) by direction.

Table 4 - Percentage Frequency of Wind Speed by Hour (GMT). This table includes mean speed by hour.

Table 5 - Percentage Frequency of Total Cloud Amount (Oktas) by Wind Direction (8 pts.). This table includes mean cloud amount by wind direction.

Table 6 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Wind Direction (8 pts.).

Table 7 - Cumulative Percentage Frequency of Occurrence of Ceiling Height (feet, NH > 4/8) and Visibility (Nautical Miles).

Table 7A - Percentage Frequency of Low Cloud Amount (or Middle Cloud Amount if Low Clouds are not present) and Percentage Frequency of Sky Obscured. Amounts are in Oktas.

Table 8 - Percentage Frequency of Wind Direction (8 pts.) vs. Occurrence or Non-Occurrence of Precipitation at Observation Time with Varying Values of Visibility (Nautical Miles).

Table 9 - Percentage Frequency of Wind Direction (8 pts.) vs. Wind Speed (kts.) with Varying Values of Visibility (Nautical Miles).

Table 10 - Percentage Frequency of Ceiling Heights (feet, NH > 4/8) and Occurrence of NH < 5/8 by Hour (GMT).

Table 11 - Percentage Frequency of Visibility (Nautical Miles) by Hour (GMT).

Table 12 - Cumulative Percentage Frequency of Ranges of Visibility (Nautical Miles) and Ceiling Height (feet, NH > 4/8) by Hour (GMT).

Table 13 - Percentage Frequency of Relative Humidity (%) by Air Temperature (° F.).

Table 14 - Percentage Frequency of Wind Direction (8 pts.) by Air Temperature (° F.).

Table 15 - Means, Extremes, and Percentiles of Air Temperature (° F.) by Hour (GMT). Extreme temperatures are the one maximum and one minimum value appearing in the marine data file. The Extremes may be unrepresentative due to sampling errors. Extrapolation from the percentile values usually gives a better estimate of expected extreme conditions.

Table 16 - Percentage Frequency of Relative Humidity (%) by Hour (GMT).

Table 17 - Percentage Frequency of Air Temperature (° F.) and the Occurrence of Fog vs. Air-Sea Temperature Difference (° F.).

Air-Sea Temperature Difference is:

Positive when the air is warmer than the sea surface; Negative when the air is cooler than the sea surface. In the table heading, the limits of the temperature ranges appear in a vertical arrangement along the top of the table.

Table 18 - Percentage Frequency of Surface Wind Speed (kts.) and Direction (8 pts.) vs. Sea Height (feet). Source deck 128 for which data are available from mid-1963 was used for these tables. This deck represents the latest and most complete homogeneous source of wave data available. Here, only sea waves generated by local winds in the vicinity of the observer are summarized.

Table 19 - Percentage Frequency of Wave Height (feet) vs. Wave Period (seconds). In this table when both sea and swell waves are present in an observation, the higher of the two is used. If both are the same height, the longer period is chosen. When only one of the wave groups is observed, either sea or swell, it is used in the summary. Swell waves are those generated by winds distant from the local area where the observation is taken.

Tables 1-19 appear together for each month and in the annual summary. The following two tables appear at the end of the entire series for each area.

Note:

In this volume, percentage frequencies at specified hours of the day refer to percentages of observations taken at those hours, rather than percentages of observations taken at all hours. Data at adjacent hours are summarized with data at synoptic hours, i.e., data from 02 and 04 GMT are combined with data from 03 GMT.

Table 20 - Monthly and Annual Percentage Frequencies and Means of Sea Surface Temperature ($^{\circ}$ F.).

Table 21 - Monthly and Annual Sea Level Pressures (millibars). This table includes means by hour and for all hours, extreme values and percentile values.

CONTENTS

AREA	NAME	PAGES
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Copies of this document are obtainable from the National Technical Information Service (NTIS), Springfield, Virginia 22161.

DIRECTION AND WEATHER CODES

CONVERSION OF WIND AND WAVE DIRECTION TO 8 POINTS

A reduced bias system was employed in converting wind and wave directions to 8 points. This method attaches weighting values to observations which overlap two different 8 point sectors and treats them as "decimal observation counts." These decimal quantities are rounded to whole numbers for presentation as "observational counts" in the tables. Figures 1-4 below show the 8 point system with other systems superimposed.

Note: Because of rounding, sub-total sums of "observational counts" may not equal grand totals.



Fig 1. The 8 point direction system.

Fig 2. The 16 point direction system superimposed on the 8 point system.

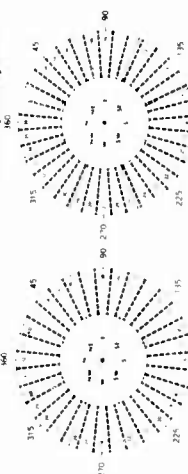


Fig 3. The 32 point direction system superimposed on the 8 point system.

Fig 4. The 36 point direction system superimposed on the 8 point system.

VISIBILITY (VV)		PRESENT WEATHER (1960 WMO CODE 4677)	
CODE	INTERPRETATION (NAUTICAL MILES)	CODE	INTERPRETATION
90-93	VV<1/2	58-59	FOG (WITHOUT PRECIPITATION)
94	1/2≤VV<1	60-65	FOG (WITHOUT PRECIPITATION)
95	1≤VV<2	91-94	RAIN
96	2≤VV<5	(68-69, 95, 97 IF TEMP ≥40° F)	RAIN SHOWERS
97	5≤VV<10	80-82, (83-84 IF TEMP ≥40° F)	DRIZZLE
98	10≤VV<25	50-53, 58-59	FREEZING PRECIPITATION
99	VV≥25	56-57	SNOW
		66-67	OTHER FROZEN PRECIPITATION
		70-75, 85-86 (68-69, 83-84, 95, 97 IF TEMP ≤40° F)	HAIL
		76-79	THUNDER
		87-90	LIGHTNING
		93-94	THUNDERSTORM
		96, 99	
		13, 17	
		19, 29	
		95-99	

NOTE: < means less than; > means greater than; ≤ means less than or equal to; ≥ means greater than or equal to.

NOTE: The following WMO codes were counted in two weather categories. 58-59 (rain and drizzle); 68-69 (rain and snow); 93-94 (rain and hail); 96 and 99 (hail and thunder/lightning/thunderstorm); 95 and 97 (snow and thunder/lightning/thunderstorm), or (rain and thunder/lightning/thunderstorm).

WAVE HEIGHT (from source decks 128 and 116)

RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)	RECORDED CODE (HALF METERS)	RANGE (METERS)	AS RECORDED IN TABULATION (FEET)
00	≤.25}	<1	12	>5.75 to 6.25}	20-22	30	>14.75 to 15.25}	
01	>.25 to .75}	1-2	13	>6.25 to 6.75}		31	>15.25 to 15.75}	
02	>.75 to 1.25}	3-4	14	>6.75 to 7.25}	23-25	32	>15.75 to 16.25}	49-60
03	>1.25 to 1.75}	5-6	15	>7.25 to 7.75}		33	>16.25 to 16.75}	
04	>1.75 to 2.25}	7	16	>7.75 to 8.25}		34	>16.75 to 17.25}	
05	>2.25 to 2.75}	8-9	17	>8.25 to 8.75}	26-32	35	>17.25 to 17.75}	
06	>2.75 to 3.25}	10-11	18	>8.75 to 9.25}		36	>17.75 to 18.25}	
07	>3.25 to 3.75}	12	19	>9.25 to 9.75}				
08	>3.75 to 4.25}	13-16	20	>9.75 to 10.25}		37	>18.25 to 18.75}	61-70
09	>4.25 to 4.75}		21	>10.25 to 10.75}	33-40	38	>18.75 to 19.25}	
10	>4.75 to 5.25}	17-19	22	>10.75 to 11.25}		39	>19.25 to 19.75}	
11	>5.25 to 5.75}		23	>11.25 to 11.75}		40	>19.75 to 20.25}	
			24	>11.75 to 12.25}		41	>20.25 to 20.75}	
			25	>12.25 to 12.75}		42	>20.75 to 21.25}	
			26	>12.75 to 13.25}				
			27	>13.25 to 13.75}	41-48	43	>21.25 to 21.75}	71-86
			28	>13.75 to 14.25}		44	>21.75 to 22.25}	
			29	>14.25 to 14.75}		45	>22.25 to 22.75}	
						46	>22.75 to 23.25}	
						47	>23.25 to 23.75}	
						48	>23.75 to 24.25}	
						49	>24.25 to 24.75}	
						50	>24.75 to 25.25}	
						51	>25.25 to 25.75}	
						52	>25.75 to 26.25}	
						53-99	>26.25 to 49.75}	≥87

Indeterminate=INDET

JANUARY

PERIOD: (PRIMARY) 1922-1971
(OVER-ALL) 1883-1971AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
N	11.1	14.1	.0	.0	.0	.0	.0	25.3	.0	4.0	.0	.0	6.1	.0
NE	5.0	6.0	.0	.0	.0	.0	.0	11.0	.0	.0	.0	.0	.0	.0
E	12.5	7.0	3.5	.0	.0	.0	.0	23.0	3.1	1.2	1.6	.0	.0	.0
SE	7.8	16.3	3.4	.0	.0	.0	.0	27.5	5.0	1.6	.0	.0	1.3	.0
S	8.7	8.7	.0	.0	.0	.0	.0	17.4	.0	5.8	5.8	.0	.0	.0
SW	.0	.0	12.5	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0
W	10.8	6.2	.0	.0	.0	.0	.0	16.9	.0	.0	.0	.0	.0	.0
NW	6.7	13.3	4.4	.0	.0	.0	.0	24.4	.0	.0	4.4	.0	6.7	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	8.8	10.8	2.7	.0	.0	.0	.0	22.3	2.3	1.5	1.2	.0	1.5	.0
TOT OBS:	260													71.9

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
00003	6.2	9.2	1.5	.0	.0	.0	.0	16.9	1.5	1.5	.0	.0	1.5	.0
06009	5.7	11.4	4.5	.0	.0	.0	.0	21.6	.0	1.1	2.3	.0	3.4	.0
12015	13.0	8.7	2.2	.0	.0	.0	.0	23.9	8.7	2.2	2.2	.0	.0	.0
18021	13.3	12.0	1.3	.0	.0	.0	.0	26.7	2.7	1.3	.0	.0	.0	.0
TOT PCT	9.1	10.6	2.6	.0	.0	.0	.0	22.3	2.6	1.5	1.1	.0	1.5	.0
TOT OBS:	274													71.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18
N	1.9	7.6	1.8	.0	.1	.0		11.3	7.4		5.2	13.1	11.1	16.1	4.4	11.4	8.3
NE	1.4	8.8	1.4	.0	.1	.0		11.7	6.8		14.7	9.2	19.1	12.4	2.9	12.0	9.4
E	2.6	14.6	3.8	.0	.0	.0		21.1	7.7		29.3	17.0	21.1	21.2	26.5	25.3	21.8
SE	2.0	12.8	7.4	1.2	.0	.0		23.4	10.3		27.6	26.9	25.5	18.0	42.6	16.9	23.1
S	1.0	4.4	1.4	.1	.0	.0		6.8	7.9		5.2	12.9	4.5	4.3	5.9	5.1	7.5
SW	.2	2.2	.2	.0	.0	.0		2.6	6.9		4.3	1.5	1.8	.5	.0	6.3	1.6
W	.8	4.6	1.4	.0	.1	.0		6.9	8.6		5.2	3.9	5.9	8.6	16.2	2.4	5.9
NW	2.0	7.6	2.0	.0	.1	.0		11.7	7.7		5.2	11.7	10.9	15.6	1.5	14.5	11.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0
CALM	4.5							4.5	.0		3.4	3.9	.0	3.2	.0	6.0	10.8
TOT OBS	102	392	121	8	2	0	625		7.9		29	103	110	93	17	83	93
TOT PCT	16.3	62.7	19.4	1.3	.3	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40				00	06	12	18
N	6.1	4.7	.4	.0	.1		11.3	7.4	11.4	13.4	10.3
NE	7.4	3.9	.2	.0	.1		11.7	6.8	10.4	16.0	10.5
E	8.6	12.0	.5	.0	.0		21.1	7.7	19.7	21.2	25.5
SE	6.5	13.3	3.3	.3	.0		23.4	10.3	27.1	22.0	21.3
S	3.0	3.8	.1	.0	.0		6.8	7.9	11.2	4.4	5.3
SW	1.5	1.0	.1	.0	.0		2.6	6.9	2.1	1.2	5.3
W	3.4	2.4	1.0	.1	.0		6.9	8.6	4.2	7.1	4.8
NW	5.6	5.5	.5	.1	.0		11.7	7.7	10.2	13.1	12.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0
CALM	4.5						4.5	.0	3.8	1.5	5.0
TOT OBS	291	291	39	3	1	625		7.9	132	203	100
TOT PCT	46.6	46.6	6.2	.5	.2		100.0		100.0	100.0	100.0

JANUARY

PERIOD: (PRIMARY) 1922-1971
(OVER-ALL) 1883-1971AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.5E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOURL	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	3.8	9.8	62.9	21.2	2.3	.0	.0	.0	8.2	100.0	132
06009	1.5	15.3	59.6	20.7	2.0	1.0	.0	.0	8.4	100.0	203
12015	5.0	10.0	67.0	18.0	.0	.0	.0	.0	7.4	100.0	100
18021	7.9	10.5	63.7	17.4	.5	.0	.0	.0	7.4	100.0	190
TOT	28	74	392	121	8	2	0	7.9			625
PCT	4.5	11.8	62.7	19.4	1.3	.3	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.5	.0	.0	1.0		4.4
NE	1.9	.0	4.7	1.7		5.8
E	4.4	5.3	6.9	6.7		5.1
SE	5.6	8.3	9.2	12.8		5.4
S	.0	1.9	3.6	4.2		6.5
SW	.0	.0	1.1	2.8		7.7
W	.0	1.1	3.3	2.5		5.9
NW	.0	1.1	1.1	3.1		6.9
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	2.2	.0		6.5
TOT OBS	13	16	29	32	90	5.6
TOT PCT	14.4	17.8	32.2	35.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	3.6	
NE	.0	.0	.0	3.9	1.1	1.1	.0	.0	.0	.0	2.2	
E	1.1	.0	.0	3.6	3.1	1.1	.0	.0	.0	.0	14.4	
SE	1.1	.0	.0	6.9	4.7	1.4	.0	.0	.0	.0	21.7	
S	.0	.0	.0	3.3	.8	.8	.0	.0	.0	.0	4.7	
SW	.0	.0	.0	1.1	.3	.0	.0	.0	1.1	.0	1.4	
W	.0	.0	.0	1.1	.0	1.7	.0	.0	.0	.0	4.2	
NW	.0	.0	.0	.0	1.1	.8	.0	.0	.0	.0	3.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	
TOT OBS	2	0	0	18	10	7	0	0	1	0	52	90
TOT PCT	2.2	.0	.0	20.0	11.1	7.8	.0	.0	1.1	.0	57.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)														
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0							
= OR >6500	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2							
= OR >4000	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2							
= OR >2500	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2							
= OR >2000	7.6	9.8	9.8	9.8	9.8	9.8	9.8	9.8							
= OR >1000	13.0	19.6	20.7	20.7	20.7	20.7	20.7	20.7							
= OR >600	21.7	34.8	39.1	39.1	40.2	40.2	40.2	40.2							
= OR >300	21.7	34.8	39.1	39.1	40.2	40.2	40.2	40.2							
= OR >150	21.7	34.8	39.1	39.1	40.2	40.2	40.2	40.2							
= OR >0	21.7	37.0	41.3	41.3	42.4	42.4	42.4	42.4							
TOTAL	20	34	38	38	39	39	39	39							

TOTAL NUMBER OF OBS: 92

PCT FREQ NH <5/8: 57.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
1.0	9.5	19.0	14.3	12.4	7.6	5.7	8.6	20.0	1.9	105

PERIOD: (PRIMARY) 1927-1971
(OVER-ALL) 1883-1971

JANUARY

AREA 0001 PRINCESS CHARLOTTE BAY
14.1S 144.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	.4	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	.4	
1/2<1	PCP	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	.8	
	NO PCP	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	1.2	
	TOT %	.0	.0	.4	.4	.4	.0	.0	.0	.0	.0	.0	1.2	
1<2	PCP	.4	.0	.6	.2	.0	.0	.0	.0	.0	.0	.0	1.5	
	NO PCP	.6	.0	.4	.0	.0	.0	.0	.6	.0	.0	.0	2.7	
	TOT %	1.0	.0	1.0	.2	.0	.0	.0	.6	.0	.0	.0	2.7	
2<5	PCP	.0	.0	.7	.5	.0	.4	.4	.0	.0	.0	.0	1.9	
	NO PCP	.0	.4	.0	.0	.2	.2	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.4	.7	.5	.2	.6	.4	.0	.0	.0	.0	2.7	
5<10	PCP	1.3	1.1	3.8	6.9	.8	.0	.7	1.7	.0	.0	.0	16.2	
	NO PCP	4.4	2.8	6.3	9.7	.6	.8	2.3	2.9	.0	.0	.0	29.7	
	TOT %	5.7	3.9	10.0	16.6	1.4	.8	3.0	4.6	.0	.0	.0	45.9	
10+	PCP	.6	.0	.7	.5	.4	.0	.0	.4	.0	.0	.0	2.7	
	NO PCP	2.1	5.4	12.1	12.4	4.3	1.7	2.9	2.7	.0	.8	.8	46.4	
	TOT %	2.9	5.4	12.7	12.8	4.7	1.7	2.9	3.1	.0	.8	.8	47.1	
TOT OBS														259
TOT PCT														9.4 9.7 24.8 30.5 6.7 3.1 6.3 8.7 .0 .8 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
1/2<1	0-3	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.4	.4
	4-10	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.2
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.2	.2	.2	.0	.0	.1	.0	.0	.9	.9
1<2	0-3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	4-10	.0	.0	.4	.1	.1	.0	.0	.0	.0	.0	.6	.6
	11-21	.3	.0	.1	.1	.0	.0	.0	.3	.0	.0	.9	.9
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.5	.0	.5	.2	.1	.0	.0	.3	.0	.0	1.7	1.7
2<5	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.2
	4-10	.1	.2	.3	.4	.3	.2	.0	.3	.0	.0	1.9	1.9
	11-21	.1	.2	.6	.3	.1	.1	.2	.1	.0	.0	1.7	1.7
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2
	TOT %	.2	.4	.9	.9	.4	.3	.4	.4	.0	.0	4.1	4.1
5<10	0-3	.6	1.0	.5	.3	.3	.0	.2	1.5	.0	.6	5.2	5.2
	4-10	2.6	1.0	4.4	5.3	1.2	.4	2.0	3.2	.0	.0	20.0	20.0
	11-21	.6	.3	1.1	4.3	.3	.1	.5	.5	.0	.0	7.7	7.7
	22+	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.9	.9
	TOT %	3.8	2.3	6.0	10.7	1.8	.5	2.7	5.2	.0	.6	33.7	33.7
10+	0-3	.3	.8	1.1	1.0	.3	.2	.4	.7	.0	3.9	8.6	8.6
	4-10	3.6	6.7	10.1	8.4	3.1	2.0	3.0	4.3	.0	.0	41.0	41.0
	11-21	.4	.4	2.5	3.3	1.6	.1	.8	1.0	.0	.0	9.7	9.7
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2
	TOT %	4.3	7.6	13.6	12.8	4.7	2.3	4.1	6.0	.0	3.9	59.4	59.4
TOT OBS													466
TOT PCT													9.0 10.5 21.3 24.9 7.2 3.1 7.2 12.2 .0 4.5 100.0

JANUARY

PERIOD: (PRIMARY) 1922-1971
(OVER-ALL) 1883-1971

AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.5F

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	17.2	10.3	6.9	.0	.0	.0	3.4	37.9	62.1	29
06009	.0	.0	.0	16.1	9.7	3.7	.0	.0	.0	.0	29.0	71.0	31
12015	5.9	.0	.0	23.5	11.8	11.8	.0	.0	.0	.0	52.9	47.1	17
18021	4.8	.0	.0	19.0	9.5	9.5	.0	.0	4.8	.0	47.6	52.4	21
TOT	2	0	0	18	10	7	0	0	1	1	39	59	98
PCT	2.0	.0	.0	18.4	10.2	7.1	.0	.0	1.0	1.0	39.8	60.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	1.0	8.0	24.0	67.0	100
06009	.6	1.3	2.6	4.5	34.8	56.1	155
12015	.0	2.6	1.3	1.3	39.0	55.8	77
18021	.0	.0	1.4	2.7	37.2	58.6	146
TOT	1	4	8	20	163	284	480
PCT	.2	.8	1.7	4.2	34.0	59.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	18.5	22.2	59.3	27
06009	.0	.0	20.7	10.3	69.0	29
12015	5.9	11.8	29.4	23.5	47.1	17
18021	5.3	5.3	26.3	26.3	47.4	19
TOT	2	3	21	18	53	92
PCT	2.2	3.3	22.8	19.6	57.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.5	.5	.0	.0	2	1.0
85/89	.0	.0	.0	1.0	2.0	11.2	4.6	1.5	40	20.4
80/84	.0	.0	.0	1.0	2.6	13.8	38.8	7.1	174	63.3
75/79	.0	.0	.0	.0	.0	.0	5.1	10.2	30	15.3
TOTAL	0	0	0	4	10	50	95	37	196	100.0
PCT	.0	.0	.0	2.0	5.1	25.5	48.5	18.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.8	.0	.0	.0	.0	.0	.0	.3	.0	.0
1.3	2.4	3.3	8.2	2.4	.0	1.5	1.3	.0	.0
7.5	5.4	14.4	19.0	2.0	.8	5.1	8.0	.0	.0
.9	.8	3.4	7.8	1.8	.5	.0	.1	.0	.0
10.5	8.5	21.2	34.9	6.3	1.3	6.6	9.7	.0	1.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	88	86	83	78	74	73	83.1	130
06009	91	90	88	83	78	75	73	82.6	206
12015	87	86	84	82	77	75	75	81.6	101
18021	88	85	84	81	78	75	74	81.2	198
TOT	91	89	86	82	78	75	73	82.1	635

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	8.3	37.5	41.7	12.5	80	48
06009	.0	4.0	6.7	28.0	46.7	14.7	80	75
12015	.0	3.2	3.2	16.1	61.3	16.1	83	31
18021	.0	.0	.0	14.3	57.1	28.6	85	56
TOT	0	4	10	52	106	98	82	210

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PERIOD: (PRIMARY) 1922-1971
(OVER-ALL) 1883-1971AREA 0001 PRINCESS CHARLETTE BAY
14.15 144.5F

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
7/8	.0	.0	.0	.5	.5	2	.0	.9
5	.0	.0	.5	.9	.5	4	.0	1.9
4	.0	.0	.5	2.8	.0	7	.0	3.3
3	.0	.0	.0	2.3	.9	7	.0	3.3
2	.0	.0	4.2	6.0	.0	22	.0	10.2
1	.0	.5	2.8	1.4	.0	10	.0	4.7
0	.0	1.0	16.7	.5	.0	41	.0	19.1
-1	.5	3.7	9.3	.5	.0	30	.5	13.5
-2	.0	2.8	14.9	.5	.0	39	.5	17.7
-3	.0	4.7	6.0	.0	.0	23	.0	10.7
-4	.0	3.7	3.7	.0	.0	16	.0	7.4
-5	.0	2.8	.0	.0	.0	6	.0	2.8
-6	.0	.9	1.4	.0	.0	5	.0	2.3
-7/-8	.0	.0	.5	.0	.0	1	.0	.5
-9/-10	.0	.5	.0	.0	.0	1	.0	.5
-11/-13	.5	.0	.0	.0	.0	1	.0	.5
TOTAL	2		130		4	215	2	213
PCT	.9	21.4	60.5	15.3	1.9	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.0	.0	.0	.0	.0	1.0	.0	2.0	.0	.0	.0	.0	2.0
1-2	.0	2.0	.0	.0	.0	.0	2.0	.0	3.0	1.3	.0	.0	.0	4.9
3-4	.0	1.3	1.3	.0	.0	.0	2.6	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.3	2.3	.0	.0	.0	6.6	.0	5.9	1.3	.0	.0	.0	7.2

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	1.3	2.3	.0	.0	.0	.0	3.6	.0	5.3	.0	.0	.0	.0	5.3
1-2	.0	5.9	2.3	.0	.0	.0	8.2	.0	6.9	3.3	.0	.0	.0	10.2
3-4	.0	8.9	3.6	.0	.0	.0	12.5	.0	3.9	10.2	.0	.0	.0	14.1
5-6	.0	.0	2.3	.0	.0	.0	2.3	.0	1.3	3.3	1.3	.0	.0	5.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	17.1	4.2	.0	.0	.0	26.6	.0	17.4	16.8	2.6	.0	.0	36.8

PERIOD: (OVER-ALL) 1943-1971

JANUARY
TABLE 18 (CONT)

AREA 0001 PRINCESS CHARLOTTE BAY
14.1S 144.5E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT								PCT								PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
1-2	.0	3.9	1.0	.0	.0	.0		4.9	.0	1.3	.0	.0	.0	.0		1.3	
3-4	.0	.0	3.3	.0	.0	.0		3.3	.0	.0	.0	.0	.0	.0		.0	
5-6	.0	.0	1.0	.0	.0	.0		1.0	.0	.0	.0	.0	.0	.0		.0	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	1.3	.0	.0	.0	.0		1.3	
TOT PCT	.0	3.9	5.3	.0	.0	.0		9.2	.0	1.3	.0	.0	.0	.0			

HGT								PCT								PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	1.0	1.3	.0	.0	.0	.0		2.3	1.6	1.3	.0	.0	.0	.0		3.0	
1-2	.0	1.0	.0	.0	.0	.0		1.0	.0	.3	.0	.0	.0	.0		.3	
3-4	.0	.0	.0	.0	.0	.0		.0	.0	.0	1.3	.0	.0	.0		1.3	
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	1.6	.0	.0	.0		1.6	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	1.0	2.3	.0	.0	.0	.0		3.3	1.6	1.6	3.0	.0	.0	.0		6.3	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	8.8	13.8	.0	.0	.0	.0	22.5	
1-2	1.3	23.8	7.5	.0	.0	.0	32.5	
3-4	.0	13.8	18.8	.0	.0	.0	32.5	
5-6	.0	1.3	8.8	1.3	.0	.0	11.3	
7	.0	.0	.0	1.3	.0	.0	1.3	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.0	52.5	35.0	2.5	.0	.0	100.0	80

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	12.6	28.4	17.9	6.3	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	2
6-7	.0	.0	9.5	2.1	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	4
8-9	.0	.0	1.1	.0	2.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
10-11	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	1
UNDET	7.4	4.2	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	95	3
TOTAL	19	31	29	8	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	100.0	
PCT	20.0	32.6	30.5	8.4	7.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		

FEBRUARY

PERIOD: (PRIMARY) 1920-1970
(OVER-ALL) 1883-1970

AREA 0001 PRINCESS CHARLOTTE EAY
14.15 144.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
N	8.0	10.2	.0	.0	.0	.0	.0	18.2	1.5	2.9	2.9	.0	2.9	.0
NE	12.3	.0	.0	.0	.0	.0	.0	12.3	.0	7.7	.0	.0	.0	.0
E	1.8	6.8	.0	.0	.0	.0	.0	8.1	3.8	1.4	2.7	.0	.0	.0
SE	2.7	6.8	.0	.0	.0	.0	.0	9.5	4.1	.3	4.8	.0	1.4	.0
S	.0	14.5	.0	.0	.0	.0	.0	14.5	.0	4.3	.0	.0	.0	.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	4.9	.0	.0	.0	.0	4.9	.0	.0	.0	.0	.0	.0
NW	3.4	15.7	1.4	.0	.0	.0	.0	20.0	1.4	2.8	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0
TOT PCT	3.5	7.8	.4	.0	.0	.0	.0	11.6	2.3	1.9	2.3	.0	1.2	.0
TOT OBS:	258													80.6

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
00003	4.5	4.5	.0	.0	.0	.0	.0	9.1	3.0	.0	1.5	.0	3.0	.0
06009	3.4	9.0	.0	.0	.0	.0	.0	12.4	3.4	2.2	3.4	.0	1.1	.0
12015	4.7	14.0	.0	.0	.0	.0	.0	18.6	2.3	4.7	2.3	.0	.0	.0
18021	5.1	10.1	1.3	.0	.0	.0	.0	16.5	.0	1.3	1.3	.0	.0	.0
TOT PCT	4.3	9.0	.4	.0	.0	.0	.0	13.7	2.2	1.8	2.2	.0	1.1	.0
TOT OBS:	277													79.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18
N	2.4	9.0	1.9	.0	.0	.0		13.3	6.6	9.5	16.3	19.8	18.5	14.7	6.3	10.5	7.1
NE	1.4	6.4	1.1	.0	.0	.0		8.9	6.3	5.2	9.2	14.8	7.5	7.4	10.7	4.3	7.4
E	2.3	14.3	5.1	.0	.0	.0		21.7	8.1	31.9	18.5	25.3	22.6	16.2	32.1	21.4	11.9
SE	1.7	16.6	6.7	.0	.0	.0		25.0	8.7	25.9	24.2	21.4	24.7	29.4	25.0	26.8	27.6
S	1.4	3.8	1.6	.0	.0	.0		6.8	7.8	.0	5.2	5.2	1.4	23.5	8.9	8.7	11.1
SW	.8	2.1	.0	.0	.0	.0		2.9	5.8	10.3	.0	.0	1.4	5.9	.9	4.3	7.4
W	.4	3.5	.5	.0	.0	.0		4.5	7.3	10.3	1.1	.0	2.7	.0	3.6	5.8	12.8
NW	1.7	8.6	3.0	.2	.0	.0		13.4	8.4	3.4	20.1	11.3	17.1	2.9	12.5	12.3	12.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3							3.3	.0	3.4	5.4	2.2	4.1	.0	.0	5.8	2.3
TOT OBS	79	332	103	1	0	0	515		7.6	29	92	91	73	17	56	69	88
TOT PCT	15.3	64.5	20.0	.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	8.2	4.7	.4	.0	.0		13.3	6.6	14.7	19.2	8.2	8.6	
NE	6.3	2.3	.3	.0	.0		8.9	6.3	8.3	11.6	9.9	6.1	
E	8.6	12.2	.4	.0	.0		21.7	8.1	21.7	24.1	28.4	16.1	
SE	9.4	13.7	1.9	.0	.0		25.0	8.7	24.6	22.9	26.0	27.2	
S	2.9	3.8	.2	.0	.0		6.8	7.8	3.9	3.5	12.3	10.0	
SW	1.7	1.2	.0	.0	.0		2.9	5.8	2.5	.6	2.1	6.1	
W	2.3	2.2	.0	.0	.0		4.5	7.3	3.3	1.2	2.7	9.7	
NW	5.1	7.5	.9	.0	.0		13.4	8.4	16.1	13.9	10.3	12.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.3						3.3	.0	5.0	3.0	.0	3.8	
TOT OBS	246	245	24	0	0	515		7.6	121	164	73	157	
TOT PCT	47.8	47.6	4.7	.0	.0		100.0		100.0	100.0	100.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1920-1970
(OVER-ALL) 1883-1970AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	5.0	17.4	62.0	15.7	.0	.0	.0	.0	6.8	100.0	121
06009	3.0	9.6	63.4	23.2	.6	.0	.0	.0	7.9	100.0	164
12015	.0	12.3	61.6	26.0	.0	.0	.0	.0	8.3	100.0	73
18021	3.8	10.2	68.8	17.2	.0	.0	.0	.0	7.4	100.0	157
TOT	17	62	332	103	1	.0	.0	.0	7.6	100.0	515
PCT	3.3	12.0	64.5	20.0	.2	.0	.0	.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	1.3	.9	10.4	.6		5.3
NE	1.0	.6	4.7	.3		4.6
E	3.5	12.0	10.8	4.7		4.9
SE	2.5	4.1	10.8	2.5		4.9
S	2.5	2.5	2.2	1.3		3.6
SW	2.5	1.3	1.3	1.3		4.0
W	1.3	.0	2.5	1.3		4.7
NW	2.5	.0	1.6	1.9		4.4
VAR	.0	.0	.0	.0		.0
CALM	1.3	.0	1.3	.0		4.0
TOT OBS	15	17	36	11	79	4.7
TOT PCT	19.0	21.5	45.6	13.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH < 5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.6	1.3	1.3	1.3	.0	.0	.0	.0	8.9	
.0	.0	.0	1.3	1.6	.0	.0	.0	.0	.0	4.4	
.0	.0	1.3	.0	.9	1.3	.0	1.3	.0	.0	26.3	
.0	1.3	.0	2.5	1.3	.0	.0	.0	.0	.0	14.9	
.0	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	6.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	
.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	2.5	
.0	.0	.6	.0	1.3	.0	.0	.0	.0	.0	4.1	
.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	5.9	79
.0	1	4	4	7	3	0	1	0	0	74.7	100.0
.0	1.3	5.1	5.1	8.9	3.8	.0	1.3	.0	.0		

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	OR		OR		OR		OR		OR		OR	
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0				
>6500	.0	.0	.0	.0	.0	.0	.0	.0				
>5000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3				
>3500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3				
>2000	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0				
>1000	11.3	13.8	13.8	13.8	13.8	13.8	13.8	13.8				
>600	15.0	17.5	17.5	18.8	18.8	18.8	18.8	18.8				
>300	18.8	22.5	22.5	23.8	23.8	23.8	23.8	23.8				
>150	18.8	23.8	23.8	25.0	25.0	25.0	25.0	25.0				
>0	20.0	25.0	25.0	26.3	26.3	26.3	26.3	26.3				
TOTAL	16	20	20	21	21	21	21	21				

TOTAL NUMBER OF OBS: 80

PCT FREQ NH < 5/8: 73.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
7.7	15.4	22.0	19.8	8.8	8.8	8.8	2.2	5.5	1.1	91

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PERIOD: (PRIMARY) 1920-1970
(OVER-ALL) 1883-1970

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	TOT %	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
1<2	PCP	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	PCP	1.9	.4	1.4	1.9	.6	.0	.2	2.1	.0	.0	.0	8.6
	NO PCP	5.1	3.2	8.1	14.0	1.8	1.2	1.2	6.4	.0	.8	.8	41.6
	TOT %	7.0	3.6	9.4	16.0	2.3	1.2	1.4	8.6	.0	.8	.8	50.2
10+	PCP	.5	.0	.4	.8	.4	.0	.0	.7	.0	.0	.0	2.7
	NO PCP	5.4	2.3	11.7	11.8	3.7	2.7	2.6	4.9	.0	1.2	1.2	46.3
	TOT %	5.9	2.3	12.1	12.5	4.1	2.7	2.6	5.5	.0	1.2	1.2	49.0
TOT OBS													
TOT PCT													
		13.3	6.3	21.5	28.5	6.4	3.9	4.0	14.1	.0	1.9	100.0	257

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.6
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.6
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.3	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.6
	11-21	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.0	.0	.0	.0	.0	.4	.1	.0	.0	.0	.8
5<10	0-3	.3	.7	.4	1.2	.6	.3	.0	.1	.0	1.1	.0	4.7
	4-10	4.6	2.1	4.6	9.0	1.1	.8	1.1	4.8	.0	.0	.0	28.5
	11-21	.6	.3	2.5	3.5	1.0	.0	.4	1.5	.0	.0	.0	9.7
	22+	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
	TOT %	5.4	3.1	7.8	13.7	2.6	1.1	1.5	6.8	.0	1.1	1.1	43.1
10+	0-3	1.6	1.2	2.0	1.0	.0	.3	.1	.7	.0	1.9	.0	9.4
	4-10	4.7	4.0	10.1	8.1	2.2	1.8	2.7	3.3	.0	.0	.0	37.0
	11-21	1.1	.1	1.5	3.7	1.4	.0	.0	1.3	.0	.0	.0	8.8
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	7.4	5.2	13.5	12.8	4.1	2.1	2.8	5.3	.0	1.9	1.9	55.2
TOT OBS													
TOT PCT													
		13.3	8.6	21.6	26.5	6.8	3.2	4.8	12.2	.0	3.0	100.0	362

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PERIOD: (PRIMARY) 1920-1970
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	3.4	10.3	6.9	.0	.0	3.4	.0	.0	24.1	75.9	29
06009	.0	3.7	.0	3.7	11.1	3.7	.0	.0	.0	.0	22.2	77.8	27
12015	.0	.0	12.5	.0	6.3	6.3	.0	.0	.0	.0	25.0	75.0	16
18021	6.3	.0	6.3	.0	6.3	6.3	.0	.0	.0	.0	25.0	75.0	16
TOT	1	1	4	4	7	3	0	1	0	0	21	67	88
PCT	1.1	1.1	4.5	4.5	8.0	3.4	.0	1.1	.0	.0	23.9	76.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	1.1	.0	34.1	64.8	88
06009	.0	.8	.0	.8	49.2	49.2	120
12015	.0	.0	.0	1.9	45.3	52.8	59
18021	.0	.0	.8	.8	49.2	49.2	120
TOT	0	1	2	3	172	203	381
PCT	.0	.3	.5	.8	45.1	53.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	3.6	14.3	10.7	75.0	28
06009	.0	4.2	8.3	16.7	75.0	24
12015	.0	13.3	13.3	13.3	73.3	15
18021	7.7	15.4	15.4	15.4	69.2	13
TOT	1	6	10	11	59	80
PCT	1.3	7.5	12.5	13.8	73.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	2.0	2.5	10.1	4.5	2.0	42	21.2
80/84	.0	.0	.0	.0	5.6	21.7	34.3	10.1	142	71.7
75/79	.0	.0	.0	.0	.0	1.5	2.0	3.5	14	7.1
TOTAL	0	0	0	4	16	66	81	31	198	100.0
PCT	.0	.0	.0	2.0	8.1	33.3	40.9	15.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
2.9	.6	4.4	6.4	.8	.0	1.3	2.8	.0	2.0	
0.7	4.5	17.2	24.1	4.9	4.0	1.6	6.1	.0	.5	
.8	1.0	1.5	.5	1.0	.0	1.3	1.0	.0	.0	
10.4	6.2	23.1	31.1	6.7	4.0	4.2	11.9	.0	2.5	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	88	87	83	80	78	76	83.2	119
06009	89	88	87	83	79	77	75	82.6	162
12015	87	86	84	81	79	78	78	81.6	72
18021	90	89	84	81	78	74	73	81.1	157
TOT	90	88	87	82	78	76	75	82.1	510

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	9.6	40.4	38.5	11.5	79	52
06009	.0	2.7	11.0	30.4	35.6	12.3	79	73
12015	.0	3.2	3.2	25.8	48.4	19.4	82	31
18021	.0	1.7	3.3	25.0	41.7	28.3	84	60
TOT	0	4	16	72	86	38	81	216

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TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
7/8	.5	.9	.9	.0	5	.0	2.3
6	.0	.0	.9	.0	2	.0	.9
5	.0	2.3	.9	.5	8	.5	3.2
4	.0	.5	2.3	.5	7	.0	3.2
3	.0	.9	1.8	.5	7	.0	3.2
2	.9	6.4	4.7	.0	24	1.4	9.6
1	.0	7.8	5.5	.0	29	.5	12.8
0	1.4	14.6	.9	.0	37	.0	16.9
-1	1.4	11.0	2.3	.0	32	.0	14.6
-2	3.2	13.7	.0	.0	36	.0	16.4
-3	3.7	2.3	.0	.0	13	.0	5.9
-4	2.7	2.3	.0	.0	11	.0	5.0
-5	2.3	.9	.0	.0	7	.0	3.2
-6	.5	.0	.0	.0	1	.0	.5
TOTAL	36	42	3	219	100.0	2.3	97.7
PCT	16.4	63.0	19.2	1.4			

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.9	.0	.0	.0	.0	1.9	.5	.5	.0	.0	.0	.0	.9
1-2	1.9	1.4	1.4	.0	.0	.0	4.7	.0	4.2	.5	.0	.0	.0	4.7
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.5	4.7	.5	.0	.0	.0	5.7
TOT PCT	1.9	3.3	1.4	.0	.0	.0	6.6	.5	4.7	.5	.0	.0	.0	5.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	4.7	7.1	.0	.0	.0	.0	11.8	2.4	1.9	.0	.0	.0	.0	4.2
1-2	.0	12.7	.0	.0	.0	.0	12.7	.0	4.2	7.5	.0	.0	.0	11.8
3-4	.0	.0	1.9	.0	.0	.0	1.9	.0	3.8	5.7	.0	.0	.0	9.4
5-6	.0	1.9	1.4	.0	.0	.0	3.3	.0	.0	2.4	.0	.0	.0	2.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	.0	.0	.0	1.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	4.7	21.7	3.3	.0	.0	.0	29.7	2.4	9.9	17.5	.0	.0	.0	29.7

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.9	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.9	.0	.0	.0	.0	1.9	1.9	1.9	.0	.0	.0	.0	3.8
3-4	.0	.0	1.9	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.8	5.7	.0	.0	.0	9.4	1.9	1.9	.0	.0	.0	.0	3.8

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.9	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.8	.0	.0	.0	.0	3.8	.0	4.2	.0	.0	.0	.0	4.2	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.2	.0	.0	.0	.0	5.2	.0	4.2	.0	.0	.0	.0	4.2	94.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	14.8	14.8	.0	.0	.0	.0	29.6	
1-2	3.7	33.3	13.0	.0	.0	.0	50.0	
3-4	.0	3.7	9.3	.0	.0	.0	13.0	
5-6	.0	1.9	3.7	.0	.0	.0	5.6	
7	.0	.0	1.9	.0	.0	.0	1.9	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	18.5	53.7	27.8	.0	.0	.0	100.0	54

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	12.3	49.4	9.9	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	62	2
6-7	.0	2.5	2.5	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	4
8-9	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	11
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	12.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	0
TOTAL	20	42	10	8	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	81	2
PCT	24.7	51.9	12.3	9.9	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1923-1969
(OVER-ALL) 1882-1969

MARCH

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14.15 144.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	5.3	.0	.0	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	94.7
NE	5.4	.0	.0	.0	.0	.0	.0	5.4	.0	5.4	.0	.0	.0	.0	94.6
E	4.0	7.1	.0	.0	.0	.0	.0	11.1	.0	.0	2.4	.0	.0	.0	86.0
SE	4.7	9.7	.6	.0	.0	.0	.0	15.0	1.9	.3	2.2	.0	2.5	.0	78.4
S	15.5	9.7	.0	.0	.0	.0	.0	25.2	.0	1.9	3.9	.0	.0	.0	70.9
SW	13.6	6.9	.0	.0	.0	.0	.0	20.7	13.8	.0	.0	.0	.0	.0	65.5
W	7.8	.0	.0	.0	.0	.0	.0	7.8	.0	.0	.0	.0	.0	.0	92.2
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	5.3	7.5	.3	.0	.0	.0	.0	13.1	1.2	.6	1.9	.0	1.2	.0	12.6
TOT OBS:	321														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	6.4	5.1	1.3	.0	.0	.0	.0	12.8	1.3	1.3	.0	.0	1.3	.0	84.6
06009	9.7	8.7	.0	.0	.0	.0	.0	18.4	2.9	.0	1.9	.0	2.9	.0	73.4
12015	4.8	6.5	.0	.0	.0	.0	.0	11.3	.0	1.6	3.2	.0	.0	.0	85.0
18021	5.6	8.9	.0	.0	.0	.0	.0	14.4	2.2	.0	2.2	.0	.0	.0	81.1
TOT PCT	6.9	7.5	.3	.0	.0	.0	.0	14.7	1.8	.6	1.8	.0	1.2	.0	80.5
TOT OBS:	333														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.9	3.7	1.2	.0	.0	.0		5.8	7.6		.0	6.8	9.5	8.3	.0	6.0	3.2	4.3
NE	.6	3.2	.5	.2	.0	.0		4.6	8.2		.0	6.4	7.7	4.4	4.0	3.6	2.4	3.8
E	1.4	13.4	6.4	1.6	.0	.0		22.8	10.2		15.8	23.1	26.8	21.1	30.0	16.9	23.1	24.5
SE	1.3	22.9	19.4	2.8	.0	.0		46.9	11.5		53.3	44.7	42.3	54.4	50.0	51.8	41.3	46.9
S	.3	4.1	1.6	.5	.0	.0		6.5	10.3		7.5	5.1	7.4	5.6	8.0	7.2	1.4	2.9
SW	.2	1.7	.2	.0	.0	.0		2.1	7.4		6.7	1.5	.0	.0	.0	1.2	6.3	2.9
W	.3	2.3	.6	.0	.0	.0		3.2	7.5		5.8	2.3	2.7	1.7	.0	3.0	2.7	6.7
NW	.5	3.1	.6	.0	.0	.0		4.1	7.7		4.2	6.8	.9	2.2	4.0	5.4	5.8	3.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.9							3.9	.0		6.7	3.4	2.7	2.2	4.0	4.8	4.9	4.8
TOT OBS	62	362	207	34	0	0	665		9.9		30	118	111	90	25	83	103	135
TOT PCT	9.3	54.4	31.1	5.1	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	2.9	2.5	.4	.0	.0		5.8	7.6	5.4	9.0	4.6	3.7
NE	2.3	2.0	.2	.2	.0		4.6	8.2	5.1	6.2	3.7	3.1
E	6.5	13.6	2.3	.4	.0		22.8	10.2	21.6	24.3	19.9	23.8
SE	9.3	29.6	7.4	.7	.0		46.9	11.5	46.5	47.8	51.4	44.1
S	2.0	3.6	.9	.0	.0		6.5	10.3	5.6	6.6	7.4	6.6
SW	1.1	.9	.2	.0	.0		2.1	7.4	2.5	.0	.9	4.6
W	1.4	1.8	.0	.0	.0		3.2	7.5	3.0	2.2	2.7	4.7
NW	1.6	2.4	.1	.0	.0		4.1	7.7	6.3	1.5	5.1	4.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.9						3.9	.0	4.1	2.5	4.6	4.8
TOT OBS	206	376	75	8	0	665		9.9	148	201	108	208
TOT PCT	31.0	56.5	11.3	1.2	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1923-1969
(OVER-ALL) 1882-1969

MARCH

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+		
00003	4.1	8.1	48.6	33.1	6.1	.0	.0	10.0	148
06009	2.5	4.5	57.2	35.8	5.0	.0	.0	10.5	201
12015	4.6	2.8	50.9	37.0	4.6	.0	.0	10.1	108
18021	4.8	5.8	62.5	22.1	4.8	.0	.0	9.2	208
TOT	26	36	362	207	34	0	0	9.9	665
PCT	3.9	5.4	54.4	31.1	5.1	.0	.0	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	PCT FREQ				TOTAL OBS	MEAN CLOUD COVER
	0-2	3-4	5-7	8 & OBSCD		
N	.7	1.0	2.9	.0		5.1
NE	1.0	.0	4.8	.0		5.1
E	2.4	4.1	7.7	1.7		4.7
SE	6.3	10.8	21.4	9.1		5.2
S	.0	3.4	6.5	1.7		5.4
SW	.0	1.0	1.0	.2		4.8
W	1.0	.7	1.9	1.7		5.8
NW	1.2	1.2	1.0	.0		4.1
VAR	.0	.0	.0	.0		.0
CALM	1.9	1.9	.0	.0		2.2
TOT OBS	15	25	49	15	104	5.0
TOT PCT	14.4	24.0	47.1	14.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8
E	.0	.0	.0	2.9	1.9	.0	1.0	.0	.0	.0	.0	10.1
SE	.0	.0	.0	7.0	7.7	4.8	.0	.0	.0	.0	.0	28.1
S	.0	.0	.0	.7	1.0	.0	.0	.0	.0	.0	.0	9.9
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2
W	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	4.3
NW	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	2.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8
TOT OBS	0	0	0	11	12	5	1	1	0	0	73	104
TOT PCT	.0	.0	.0	10.6	11.5	4.8	1.0	1.0	.0	1.0	70.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>5000	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
>3500	1.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
>2000	5.7	7.6	7.6	7.6	7.6	7.6	7.6	7.6
>1000	13.3	16.2	18.1	19.0	19.0	19.0	19.0	19.0
>600	21.9	26.7	28.6	30.5	30.5	30.5	30.5	30.5
>200	21.9	26.7	28.6	30.5	30.5	30.5	30.5	30.5
>100	21.9	26.7	28.6	30.5	30.5	30.5	30.5	30.5
>0	21.9	26.7	28.6	30.5	30.5	30.5	30.5	30.5
TOTAL	23	28	30	32	32	32	32	32

TOTAL NUMBER OF OBS: 105

PCT FREQ NH <5/8: 69.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	4.2	8.4	24.4	11.8	17.6	10.1	5.9	7.6	10.1	.0	119

PERIOD: (PRIMARY) 1923-1969
(OVER-ALL) 1887-1969

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3	.3
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	.3
1<2	PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	.3
	NO PCP	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.3	.3
	TOT %	.0	.0	.0	.5	.2	.0	.0	.0	.0	.0	.6	.6
2<5	PCP	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.6	.6
	NO PCP	.0	.0	.5	1.5	.2	.0	.0	.0	.0	.0	2.2	2.2
	TOT %	.0	.0	.8	1.8	.2	.0	.0	.0	.0	.0	2.8	2.8
5<10	PCP	.3	.3	1.2	5.5	1.6	.5	.3	.0	.0	.0	9.7	9.7
	NO PCP	2.5	1.2	6.9	19.0	2.0	.6	1.6	.5	.0	.9	33.2	33.2
	TOT %	2.8	1.6	8.1	24.5	3.6	1.1	1.9	.5	.0	.9	44.9	44.9
10+	PCP	.0	.0	.6	1.1	.5	.0	.0	.0	.0	.0	2.2	2.2
	NO PCP	3.0	4.2	10.2	21.6	3.6	1.2	2.1	1.8	.0	1.6	49.2	49.2
	TOT %	3.0	4.2	10.8	22.7	4.0	1.2	2.1	1.8	.0	1.6	51.4	51.4
TOT OBS													321
TOT PCT		5.8	5.8	19.7	49.7	8.0	2.3	4.0	2.3	.0	2.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	.4	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	.4	.4
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	.4	.4
	11-21	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.4	.4
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.6	.1	.0	.0	.0	.0	.0	.8	.8
2<5	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.2
	4-10	.0	.0	.3	.7	.0	.0	.0	.0	.0	.0	.9	.9
	11-21	.0	.0	.3	.7	.0	.0	.0	.0	.0	.0	.9	.9
	22+	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.4	.4
	TOT %	.0	.0	.8	1.6	.1	.0	.0	.0	.0	.0	2.4	2.4
5<10	0-3	.6	.1	.6	1.1	.1	.0	.0	.0	.0	.8	3.2	3.2
	4-10	.9	.8	4.8	7.9	2.2	.7	.8	.3	.0	.0	18.2	18.2
	11-21	.6	.1	1.6	7.0	.4	.0	.4	.0	.0	.0	10.0	10.0
	22+	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	1.7	1.7
	TOT %	2.1	.9	7.0	17.7	2.6	.7	1.1	.3	.0	.8	33.1	33.1
10+	0-3	.3	.6	.5	.3	.0	.0	.3	.2	.0	2.3	4.3	4.3
	4-10	2.9	2.7	9.4	14.1	2.3	.8	1.7	2.2	.0	.0	36.1	36.1
	11-21	.0	.5	4.3	13.4	1.6	.3	.2	.6	.0	.0	21.6	21.6
	22+	.0	.0	.3	.6	.3	.0	.0	.0	.0	.0	1.1	1.1
	TOT %	3.9	3.8	14.4	28.4	4.1	1.1	2.2	3.0	.0	2.3	63.2	63.2
TOT OBS													532
TOT PCT		6.0	4.7	22.4	48.6	7.0	1.7	3.3	3.2	.0	3.0	100.0	

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PERIOD: (PRIMARY) 1923-1969
(OVER-ALL) 1887-1969AREA 0001 PRINCESS CHARLOTTE BAY
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 590	600 999	1000 1999	2000 3495	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	9.4	12.5	6.2	3.1	3.1	.0	.0	34.4	65.6	32
06009	.0	.0	.0	11.1	13.9	2.8	.0	.0	.0	2.8	30.6	69.4	36
12015	.0	.0	.0	12.0	8.0	.0	.0	.0	.0	.0	20.0	80.0	25
18021	.0	.0	.0	11.1	5.6	11.1	.0	.0	.0	.0	27.8	72.2	18
TOT	0	0	0	12	12	5	1	1	0	1	32	79	111
PCT	.0	.0	.0	10.8	10.8	4.5	.9	.9	.0	.9	28.8	71.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.4	2.5	31.1	65.5	119
06009	.0	1.2	.6	3.6	35.9	58.7	167
12015	.0	.0	3.3	1.1	30.8	64.8	91
18021	.4	.0	.0	1.8	35.3	62.3	167
TOT	1	2	5	13	184	339	544
PCT	.2	.4	.9	2.4	33.8	62.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	16.1	22.6	61.3	31
06009	.0	.0	14.7	17.6	67.6	34
12015	.0	.0	16.7	4.2	79.2	24
18021	.0	.0	12.5	18.8	68.8	16
TOT	0	0	16	17	72	105
PCT	.0	.0	15.2	16.2	68.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.4	.0	.0	.0	1	.4
84/89	.0	.0	1.3	.0	1.8	4.4	2.6	.4	24	10.5
60/84	.0	.0	.0	.4	4.4	30.7	31.6	11.0	178	78.1
75/79	.0	.0	.0	.0	.0	1.8	3.5	5.3	24	10.5
70/74	.0	.0	.0	.0	.0	.0	.0	.4	1	.4
TOTAL	0	0	3	1	15	84	86	39	228	100.0
PCT	.0	.0	1.3	.4	6.6	36.8	37.7	17.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0
84	1.8	.0	3.0	4.3	.2	.0	.4	.0	.0	.9
60	2.1	2.4	17.2	45.8	6.0	1.0	2.0	.7	.0	.9
75	.0	.9	1.8	3.4	2.5	1.5	.3	.1	.0	.3
70	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
TOT	3.8	3.3	22.1	54.2	8.8	2.5	2.7	.8	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	91	90	87	82	77	75	74	82.3	144
06009	95	89	86	82	78	76	75	82.1	199
12015	86	85	84	81	78	77	77	81.3	110
18021	86	84	83	81	77	76	75	80.5	206
TOT	95	88	86	81	77	76	74	81.5	659

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	12.2	40.8	26.5	20.4	80	49		
06009	.0	3.8	9.0	42.3	33.3	11.5	78	78		
12015	.0	2.3	7.0	39.5	32.6	18.6	79	43		
18021	.0	.0	1.4	23.2	50.7	24.6	84	69		
TOT	0	4	17	86	88	44	81	239		

PERIOD: (PRIMARY) 1923-1969
(OVER-ALL) 1882-1969

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	WU FOG
7/8	.0	.0	.0	.4	.0	1	.0	.4
6	.0	.0	.0	.4	.4	2	.0	.8
5	.0	.0	1.1	1.1	.4	7	.0	2.6
4	.0	.0	1.9	1.1	.0	8	.0	3.0
3	.0	.8	1.5	1.9	.0	11	.0	4.2
2	.0	.8	0.8	.8	.0	22	.4	7.9
1	.0	.0	10.6	1.1	.0	31	.4	11.3
0	.0	1.5	2.3	3.4	.0	72	.8	26.4
-1	.0	3.4	7.9	.0	.0	30	.4	10.9
-2	.0	1.9	1.8	.0	.0	39	.4	14.3
-3	.0	4.9	2.3	.0	.0	19	.0	7.2
-4	.0	2.3	1.1	.0	.0	9	.0	3.4
-5	.8	1.5	.8	.0	.0	8	.0	3.0
-6	.0	1.1	.0	.0	.0	3	.0	1.1
-7/-8	.4	.8	.0	.0	.0	3	.0	1.1
TOTAL	3	50	183	27	2	265	6	259
PCT	1.1	18.9	69.1	10.2	.8	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	1.4
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	1.4
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	1.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	1.4	1.4	1.4	.0	.0	.0	4.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	3.4	3.9	.0	.0	.0	9.3	.0	8.2	14.6	.0	.0	.0	22.9
3-4	.0	1.4	6.1	.0	.0	.0	7.5	.0	4.3	23.6	.0	.0	.0	27.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.4	2.1	.0	.0	.0	3.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	.0	.0	.0	2.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.9	10.0	.0	.0	.0	17.9	.0	14.3	43.2	.0	.0	.0	57.5

PERIOD: (OVER-ALL) 1963-1969

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0
1-2	.0	2.1	1.4	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	1.4
3-4	.0	1.4	6.1	1.4	.0	.0	8.9	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	9.6	1.4	.0	.0	14.6	.0	1.8	.0	.0	.0	.0	1.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4
1-2	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.4
3-4	.0	2.5	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	.0	.0	.0	.0	3.6	.0	.4	.0	.0	.0	.0	.4	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.4	2.9	.0	.0	.0	.0	4.3	
1-2	.0	18.6	20.0	.0	.0	.0	38.6	
3-4	.0	10.0	37.1	1.4	.0	.0	48.6	
5-6	.0	1.4	4.3	.0	.0	.0	5.7	
7	.0	.0	2.9	.0	.0	.0	2.9	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	32.9	64.3	1.4	.0	.0	100.0	70

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	1.0	30.3	32.3	2.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	3
6-7	.0	1.0	3.0	7.1	6.1	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	5
8-9	.0	.0	2.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	6.1	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	1
TOTAL	7	33	37	12	9	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	99	3
PCT	7.1	33.3	37.4	12.1	9.1	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1920-1969
(OVER-ALL) 1887-1969

APRIL

AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	83.3
NE	.0	35.3	.0	.0	.0	.0	.0	35.3	.0	.0	.0	.0	.0	.0	64.7
E	9.3	3.1	.0	.0	.0	.0	.0	12.4	1.6	2.1	2.1	.0	.0	.0	83.9
SE	5.5	8.9	1.6	.0	.0	.0	.0	15.9	.3	1.0	3.7	.0	.5	.0	79.0
S	.0	7.8	2.9	.0	.0	.0	.0	10.8	2.9	.0	.0	.0	.0	.0	86.3
SW	.0	.0	4.8	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	95.2
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	5.2	7.6	1.4	.0	.0	.0	.0	14.2	1.0	1.0	2.8	.0	.3	.0	81.6
TOT OBS:	288														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000Z	4.8	3.2	1.6	.0	.0	.0	.0	9.7	1.6	.0	.0	.0	.0	.0	88.7
0600Z	3.4	11.5	1.1	.0	.0	.0	.0	16.1	1.1	.0	4.6	.0	.0	.0	78.2
1200Z	1.7	5.1	.0	.0	.0	.0	.0	6.8	1.7	.0	3.4	.0	.0	.0	88.1
1800Z	8.6	9.7	2.2	.0	.0	.0	.0	20.4	.0	3.2	2.2	.0	1.1	.0	76.3
TOT PCT	5.0	8.0	1.3	.0	.0	.0	.0	14.3	1.0	1.0	2.7	.0	.3	.0	81.7
TOT OBS:	401														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	1.3	.0	.0	.0	.0		2.0	5.1		.0	.0	2.1	3.6	.0	4.9	.0	3.3
NE	.3	1.7	.2	.1	.0	.0		2.3	7.8		.0	1.5	2.1	4.2	1.4	4.3	1.0	2.2
E	2.0	8.4	7.5	.4	.0	.0		18.4	9.8		17.0	20.1	21.3	20.5	19.4	15.9	19.3	13.2
SE	1.3	25.8	28.3	3.5	.0	.0		58.9	11.8		67.0	58.3	58.9	59.6	66.7	61.0	56.7	55.5
S	.8	5.3	3.6	.7	.0	.0		10.5	10.2		15.9	9.8	7.1	10.2	12.5	10.4	9.3	14.8
SW	.4	1.1	.3	.0	.0	.0		1.9	6.6		.0	.5	2.1	.0	.0	1.2	4.4	3.8
W	.7	.9	.0	.0	.0	.0		1.6	4.1		.0	2.9	.0	.0	.0	.0	2.1	4.9
NW	.3	.7	.2	.0	.0	.0		1.1	5.5		.0	2.0	1.1	.6	.0	.0	2.1	1.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.2	.0		.0	4.9	5.3	1.2	.0	2.4	5.2	1.1
TOT OBS	58	267	237	28	0	0	590		10.4		22	102	95	83	18	82	97	91
TOT PCT	9.8	45.3	40.2	4.7	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	1.4	.6	.0	.0	.0	.0		2.0	5.1	.0	2.8	4.0	1.6
NE	1.2	.8	.2	.1	.0	.0		2.3	7.8	1.2	3.1	3.8	1.6
E	6.8	9.4	2.1	.1	.0	.0		18.4	9.8	19.6	20.9	16.5	16.4
SE	11.6	35.5	10.8	1.0	.0	.0		58.9	11.8	59.9	59.3	62.0	56.1
S	3.4	5.8	1.3	.0	.0	.0		10.5	10.2	10.9	8.6	10.8	12.0
SW	1.4	.4	.2	.0	.0	.0		1.9	6.6	.4	1.1	1.0	4.1
W	1.4	.2	.0	.0	.0	.0		1.6	4.1	2.4	.0	.0	3.5
NW	.9	.2	.0	.0	.0	.0		1.1	5.5	1.6	.8	.0	1.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.2							3.2	.0	4.0	3.4	2.0	3.2
TOT OBS	145	312	86	1	0	590		10.4		124	178	100	188
TOT PCT	91.4	52.9	14.6	1.2	.0			100.0		100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1970-1969
(OVER-ALL) 1887-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOOR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	4.0	6.5	40.3	43.5	5.6	.0	.0	10.8	100.0	124
06009	3.4	5.6	42.7	43.8	4.5	.0	.0	10.5	100.0	178
12015	2.0	5.0	45.0	43.0	4.0	.0	.0	11.1	100.0	100
18021	3.2	8.5	51.1	33.0	4.3	.0	.0	9.6	100.0	188
TOT	19	39	267	237	28	0	0	10.4		590
PCT	3.2	6.6	45.3	40.2	4.7	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	1.5		8.0
NE	.0	.0	.4	.0		7.0
E	4.1	4.1	10.8	4.9		5.1
SE	18.7	13.1	22.4	5.6		3.8
S	2.6	3.7	5.2	1.5		4.5
SW	.0	.0	1.5	.0		5.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	17	14	27	9	67	4.3
TOT PCT	25.4	20.9	40.3	13.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
E	.0	.0	.0	2.2	3.0	2.6	.0	1.5	.0	.0	14.6	
SE	.0	.0	.0	2.2	11.9	3.7	1.9	.0	.0	.0	39.9	
S	.0	.0	.0	.0	3.0	1.1	1.1	.0	.0	.0	7.8	
SW	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	17	14	27	9	3	5	2	1	0	0	43	67
TOT PCT	25.4	20.9	40.3	13.4	4.5	19.4	7.5	3.0	1.5	.0	64.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >4300	.0	.0	.0	.0	.0	.0	.0	.0
= OR >4000	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >3500	3.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5
= OR >3000	9.0	11.9	11.9	11.9	11.9	11.9	11.9	11.9
= OR >2000	23.9	29.9	31.3	31.3	31.3	31.3	31.3	31.3
= OR >1000	26.9	32.8	35.8	35.8	35.8	35.8	35.8	35.8
= OR >400	26.9	32.8	35.8	35.8	35.8	35.8	35.8	35.8
= OR >150	26.9	32.8	35.8	35.8	35.8	35.8	35.8	35.8
= OR >0	26.9	32.8	35.8	35.8	35.8	35.8	35.8	35.8
TOTAL	18	22	24	24	24	24	24	24

TOTAL NUMBER OF OBS: 67

PCT FREQ NH <5/8: 64.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.4	11.4	13.9	22.8	7.6	15.2	7.6	5.1	5.1	.0	79

PERIOD: (PRIMARY) 1920-1969
(OVER-ALL) 1887-1969

APRIL

AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.3F

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	.3
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	.3
2<5	PCP	.0	.0	.7	1.0	.0	.0	.0	.0	.0	.0	1.7	1.7
	NO PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	.3
	TOT %	.0	.0	.7	1.4	.0	.0	.0	.0	.0	.0	2.1	2.1
5<10	PCP	.0	.5	1.4	9.2	.7	.0	.0	.0	.0	.0	11.8	11.8
	NO PCP	.9	.5	7.2	30.4	4.1	1.0	.7	1.0	.0	.3	46.2	46.2
	TOT %	.9	1.0	8.6	39.6	4.8	1.0	.7	1.0	.0	.3	58.0	58.0
10+	PCP	.0	.0	.0	.3	.3	.1	.0	.0	.0	.0	.7	.7
	NO PCP	1.2	.4	7.5	24.7	3.8	.7	.2	.0	.0	.3	38.9	38.9
	TOT %	1.2	.4	7.5	25.1	4.1	.8	.2	.0	.0	.3	39.6	39.6
288													
TOT OBS													
TOT PCT		2.1	1.5	16.8	66.4	8.9	1.8	.9	1.0	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2
2<5	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2
	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.5	.8	.1	.0	.0	.0	.0	.0	1.4	1.4
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.2
	TOT %	.0	.0	.7	1.1	.1	.2	.0	.0	.0	.0	2.1	2.1
5<10	0-3	.4	.1	.2	.7	.2	.2	.0	.0	.0	.2	2.1	2.1
	4-10	.2	.6	3.1	12.8	1.5	.2	.5	.5	.0	.0	19.5	19.5
	11-21	.0	.0	2.7	13.5	1.8	.2	.2	.2	.0	.0	18.5	18.5
	22+	.0	.0	.1	2.1	.1	.0	.0	.0	.0	.0	2.4	2.4
	TOT %	.6	.7	6.1	29.2	3.7	.7	.5	.7	.0	.2	42.5	42.5
10+	0-3	.4	.2	1.5	1.1	1.0	.1	.2	.2	.0	1.7	6.4	6.4
	4-10	1.1	.8	5.5	12.9	3.6	.4	.1	.0	.0	.0	24.5	24.5
	11-21	.0	.0	4.7	16.2	1.5	.2	.0	.0	.0	.0	22.6	22.6
	22+	.0	.0	.1	.9	.4	.0	.0	.0	.0	.0	1.4	1.4
	TOT %	1.4	1.0	11.9	31.1	6.5	.8	.4	.2	.0	1.7	54.9	54.9
421													
TOT OBS													
TOT PCT		2.0	1.7	18.7	61.7	10.5	1.7	.8	1.0	.0	1.9	100.0	

APRIL

PERIOD: (PRIMARY) 1920-1969
(OVER-ALL) 1882-1969AREA 0001 PRINCESS CHARLOTTE HAY
14.15 144.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	4.8	33.3	9.5	4.8	.0	.0	.0	52.4	47.6	21
06009	.0	.0	.0	4.8	9.5	9.5	.0	.0	.0	.0	23.8	76.2	21
12015	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	16.7	83.3	18
18021	.0	.0	.0	5.9	5.9	5.9	5.9	5.9	.0	.0	29.4	70.6	17
TOT	0	0	0	3	13	5	2	1	0	0	24	53	77
PCT	.0	.0	.0	3.9	16.9	6.5	2.6	1.3	.0	.0	31.2	68.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	2.3	34.9	62.8	86
06009	.0	.0	.0	4.7	45.3	50.0	128
12015	.0	.0	.0	1.3	44.9	53.8	78
18021	.7	.0	.7	.0	43.7	54.9	142
TOT	1	0	1	9	185	238	434
PCT	.2	.0	.2	2.1	42.6	54.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	10.5	47.4	42.1	19
06009	.0	.0	5.9	23.5	70.6	17
12015	.0	.0	.0	18.8	81.3	16
18021	.0	.0	6.7	26.7	66.7	15
TOT	0	0	4	20	43	67
PCT	.0	.0	6.0	29.9	64.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	.0	.0	.4	.0	.0	1	.4
90/94	.0	.0	.0	.0	.4	.0	.0	.0	1	.4
85/89	.0	.0	.0	.4	.4	1.3	.4	.0	6	2.6
80/84	.0	.0	.0	.4	7.5	11.1	18.5	7.9	126	55.5
75/79	.0	.0	.0	.9	.9	12.8	15.4	10.1	91	40.1
70/74	.0	.0	.0	.4	.0	.0	.4	.0	2	.9
TOTAL	0	0	0	5	21	81	79	41	227	100.0
PCT	.0	.0	.0	2.2	9.3	35.7	34.8	18.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0
.9	.0	11.9	36.0	4.5	.9	.4	.9	.0	.0
.7	1.0	4.3	28.6	3.7	.9	.0	.4	.0	.4
.0	.0	.0	.4	.3	.1	.0	.0	.0	.0
1.5	1.0	16.6	68.2	8.6	1.9	.4	1.3	.0	.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	59%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	96	91	85	81	77	75	74	81.4	122
06009	90	85	84	80	76	74	71	80.3	179
12015	83	82	82	79	76	74	74	79.3	103
18021	85	83	82	79	74	71	70	78.8	189
TOT	96	86	84	80	76	74	70	79.9	593

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.3	10.9	43.5	23.9	17.4	79	46
06009	.0	2.7	16.2	32.4	27.0	21.6	79	74
12015	.0	2.4	.0	45.2	40.5	11.9	80	42
18021	.0	.0	5.7	25.7	47.1	21.4	83	70
TOT	0	5	21	81	81	44	81	232

APKIL

PERIOD: (PRIMARY) 1920-1969
(OVER-ALL) 1882-1969AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.3F

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.0	.4	1	.0	.4
6	.0	.0	.4	.8	.0	3	.0	1.2
5	.0	.0	1.2	.8	.0	5	.0	2.0
4	.0	.4	3.7	.4	.0	11	.0	4.5
3	.0	.8	3.3	.8	.0	12	.4	4.5
2	.0	6.6	8.2	.8	.0	38	.4	15.2
1	.4	7.4	3.3	.0	.0	27	.0	11.1
0	.0	12.7	11.1	.0	.0	58	2.0	21.7
-1	.0	11.1	4.1	.0	.0	37	.0	15.2
-2	.4	7.8	7.6	.0	.0	27	.0	11.1
-3	.8	2.5	.8	.0	.0	10	.0	4.1
-4	.0	4.1	.0	.0	.0	10	.0	4.1
-5	.8	.8	.0	.0	.0	4	.0	1.6
-6	.0	.4	.0	.0	.0	1	.0	.4
TOTAL	6	133	95	9	1	244	7	237
PCT	2.5	54.5	36.9	3.7	.4	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	2.0
1-2	.0	1.5	5.9	.0	.0	.0	7.4	.0	4.4	5.9	.0	.0	.0	10.3
3-4	.0	3.4	8.3	.0	.0	.0	11.8	.0	2.5	21.1	.0	.0	.0	23.5
5-6	.0	.0	4.4	.0	.0	.0	4.4	.0	.0	19.6	.0	.0	.0	19.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	2.5	.0	.0	4.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.9	18.6	.0	.0	.0	23.5	.0	6.9	50.5	2.5	.0	.0	59.8

PERIOD: (OVER-ALL) 1963-1969

APRIL

AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.5	.0	.0	.0	.0	1.5	.0	.0	.5	.0	.0	.0	.0	.0	.5
3-4	.0	5.9	2.0	.0	.0	.0	7.8	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	1.5	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	2.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	2.5
TOT PCT	.0	7.4	3.4	1.5	.0	.0	12.3	.0	.0	.5	2.0	.0	.0	.0	.0	.0

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	.0	2.0	2.0	.0	.0	.0	3.9	
1-2	.0	7.8	11.8	.0	.0	.0	19.6	
3-4	.0	11.8	31.4	.0	.0	.0	43.1	
5-6	.0	.0	25.5	.0	.0	.0	25.5	
7	.0	.0	2.0	3.9	.0	.0	5.9	
8-9	.0	.0	2.0	.0	.0	.0	2.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	21.0	74.5	3.9	.0	.0	100.0	51

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.2	32.5	28.6	11.7	1.3	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	3
6-7	.0	.0	5.5	1.3	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	4
8-9	.0	.0	.0	5.2	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDFT	1.3	25	27	14	3	3	0	0	0	0	0	0	0	0	0	0	0	0	0	77	3
TOTAL PCT	6.5	32.5	35.1	18.2	3.9	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1914-1969
(OVER-ALL) 1881-1969

MAY

AREA 0001 PRINCESS CHARLOTTE BAY
14.05 144.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	98.0
SE	1.6	4.7	.0	.0	.0	.0	.0	6.2	1.4	.3	.0	.0	1.6	.0	90.5
S	1.4	6.8	.0	.0	.0	.0	.0	8.2	.0	.0	.0	.0	.0	.0	91.8
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.2	3.9	.0	.0	.0	.0	.0	5.1	1.0	.2	.0	.0	1.5	.0	92.3
TOT OBS:	413														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	2.2	3.3	1.1	.0	.0	.0	.0	6.6	1.1	.0	.0	.0	3.3	.0	89.0
0600	.8	3.8	.0	.0	.0	.0	.0	4.6	.8	.0	.0	.0	.8	.0	91.8
1200	1.4	1.4	.0	.0	.0	.0	.0	2.8	1.4	.0	.0	.0	1.4	.0	94.4
1800	.8	5.5	.0	.0	.0	.0	.0	6.3	.8	.0	.0	.0	.8	.0	91.3
TOT PCT	1.2	3.8	.2	.0	.0	.0	.0	5.2	1.0	.2	.0	.0	1.4	.0	92.1
TOT OBS:	420														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.5	.1	.0	.0	.0	.0		.6	2.6		.0	.6	1.5	.5	.0	.5	.8	.0
NE	.3	.7	.1	.0	.0	.0		1.1	6.3		.7	.8	1.1	1.0	.0	1.0	2.8	.0
E	.9	7.9	10.1	.5	.0	.0		19.3	11.2		14.6	19.7	22.9	26.5	18.8	18.9	11.2	19.2
SE	1.0	27.6	33.0	3.9	.0	.0		65.4	12.3		68.1	62.3	62.8	63.3	66.3	68.4	70.2	64.7
S	.5	5.8	3.6	.8	.0	.0		10.6	11.4		16.7	11.5	9.4	6.8	10.0	10.2	12.2	11.6
SW	.4	.3	.1	.0	.0	.0		.8	4.5		.0	2.0	.0	.0	.0	.0	.4	2.5
W	.5	.1	.0	.0	.0	.0		.6	2.3		.0	2.0	.4	.5	.0	.0	.0	.8
NW	.2	.1	.0	.0	.0	.0		.4	3.0		.0	.2	.4	.5	.0	.0	.8	.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2							1.2	.0		.0	.8	1.5	1.0	5.0	1.0	1.6	.8
TOT OBS	41	326	357	39	0	0	763		11.6		36	122	133	103	20	103	125	121
TOT PCT	5.4	42.7	46.8	5.1	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	.6	.0	.0	.0	.0	.0	.6	2.6	.5	1.1	.4	.4
NE	.7	.4	.0	.0	.0	.0	1.1	6.3	.8	1.1	.8	1.4
E	3.4	13.4	2.4	.2	.0	.0	19.3	11.2	18.5	24.5	18.9	15.1
SE	9.0	40.7	15.1	.6	.0	.0	65.4	12.3	63.6	63.0	68.1	67.5
S	1.6	6.9	2.0	.1	.0	.0	10.6	11.4	12.7	8.3	10.2	11.9
SW	.7	.0	.1	.0	.0	.0	.8	4.5	1.6	.0	.0	1.4
W	.6	.0	.0	.0	.0	.0	.6	2.3	1.6	.4	.0	.4
NW	.4	.0	.0	.0	.0	.0	.4	3.0	.2	.4	.0	.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.2						1.2	.0	.6	1.3	1.6	1.2
TOT OBS	139	468	149	7	0	763		11.6	158	236	123	246
TOT PCT	18.2	61.3	19.5	.9	.0		100.0		100.0	100.0	100.0	100.0

MAY

PERIOD: (PRIMARY) 1914-1969
(OVER-ALL) 1881-1969AREA 0001 PRINCESS CHARLOTTE BAY
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	.6	7.6	37.3	48.1	6.3	.0	.0	.0	11.7	100.0	158
0600	1.3	3.8	39.0	48.7	7.2	.0	.0	.0	12.1	100.0	236
1200	1.6	2.4	43.1	49.6	3.3	.0	.0	.0	11.5	100.0	123
1800	1.2	3.3	49.6	42.7	3.3	.0	.0	.0	11.0	100.0	246
TOT	.9	3.2	32.6	35.7	3.9	.0	.0	.0	11.6		763
PCT	1.2	4.2	42.7	46.8	5.1	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	.0	1.3	.0	.0		4.0
E	7.6	5.3	4.8	1.0		3.6
SE	18.2	22.2	18.9	7.1		3.9
S	4.5	2.5	5.6	.0		3.7
SW	.0	.0	.0	.0		.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	1.0	.0	.0		3.0
TOT OBS	30	32	29	8	99	3.8
TOT PCT	30.3	32.3	29.3	8.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT-NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
E	.0	.0	.0	2.0	1.8	.0	.0	.0	1.0	.0	.0	13.4
SE	1.0	.0	.0	2.0	9.3	2.0	1.0	.0	1.0	.0	.0	50.0
S	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	11.6
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0
TOT OBS	1	0	0	5	11	2	1	0	2	0	77	99
TOT PCT	1.0	.0	.0	5.1	11.1	2.0	1.0	.0	2.0	.0	77.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >5000	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >3500	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
= OR >2000	3.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
= OR >1000	12.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
= OR >600	15.7	21.6	21.6	21.6	21.6	21.6	21.6	21.6
= OR >300	15.7	21.6	21.6	21.6	21.6	21.6	21.6	21.6
= OR >150	15.7	21.6	21.6	21.6	21.6	21.6	21.6	21.6
= OR >0	16.7	22.5	22.5	22.5	22.5	22.5	22.5	22.5
TOTAL	17	23	23	23	23	23	23	23

TOTAL NUMBER OF OBS: 102

PCT FREQ NH <5/8: 77.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.2	13.0	20.4	15.7	16.7	8.3	1.9	6.5	7.4	.0	108

PERIOD: (PRIMARY) 1914-1969
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.4	.6	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	.0	.0	.4	.6	.0	.0	.0	.0	.0	.0	1.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.1	.6	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.0	.1	.6	.0	.0	.0	.0	.0	.0	.7	
5<10	PCP	.0	.0	.0	4.1	.7	.0	.0	.0	.0	.0	4.8	
	NO PCP	.2	.2	9.1	42.2	4.6	1.0	.2	.0	.0	.0	57.6	
	TOT %	.2	.2	9.1	46.3	5.3	1.0	.2	.0	.0	.0	62.5	
10+	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.2	.5	8.8	22.1	3.6	.1	.0	.1	.0	.2	35.6	
	TOT %	.2	.5	8.8	22.3	3.6	.1	.0	.1	.0	.2	35.8	
TOT OBS													413
TOT PCT		.4	.8	18.4	69.9	8.9	1.1	.2	.1	.0	.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.1	.5	.1	.0	.0	.0	.0	.0	.7	
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.4	.5	.1	.0	.0	.0	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.1	.2	.9	.1	.0	.0	.0	.0	.0	1.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.2	1.2	.1	.0	.0	.0	.0	.0	1.6	
5<10	0-3	.2	.0	.0	.0	.2	.4	.1	.0	.0	.0	.9	
	4-10	.0	.2	2.6	16.1	2.6	.3	.1	.0	.0	.0	21.8	
	11-21	.0	.0	4.2	18.0	1.2	.0	.0	.0	.0	.0	23.4	
	22+	.0	.0	.3	2.3	.2	.0	.0	.0	.0	.0	2.8	
	TOT %	.2	.2	7.0	36.5	4.2	.7	.2	.0	.0	.0	48.8	
10+	0-3	.1	.2	.8	1.2	.4	.1	.0	.0	.0	1.0	4.0	
	4-10	.2	.5	4.6	11.2	2.5	.2	.0	.2	.0	.0	19.4	
	11-21	.0	.0	4.9	16.6	2.2	.0	.0	.0	.0	.0	23.7	
	22+	.0	.0	.2	1.1	.3	.0	.0	.0	.0	.0	1.6	
	TOT %	.3	.7	10.5	30.1	5.4	.3	.0	.2	.0	1.0	48.6	
TOT OBS													578
TOT PCT		.5	1.0	18.1	68.3	9.7	1.0	.2	.2	.0	1.0	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	2.8	13.9	2.8	2.8	.0	.0	.0	22.2	77.8	36
06009	.0	.0	.0	3.2	9.7	3.4	.0	.0	3.2	.0	19.4	80.6	31
12015	.0	.0	.0	5.0	5.0	.0	.0	.0	5.0	.0	15.0	85.0	20
18021	5.6	.0	.0	11.1	16.7	.0	.0	.0	.0	.0	33.3	66.7	18
TOT	1	0	0	5	12	2	1	0	2	0	23	82	105
PCT	1.0	.0	.0	4.8	11.4	1.9	1.0	.0	1.9	.0	21.9	78.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	1.6	.8	38.5	59.0	122
06009	.0	.0	.0	1.1	53.9	45.0	180
12015	.0	.0	.0	1.0	45.8	53.1	96
18021	.0	.0	2.1	2.7	51.6	43.6	188
TOT	0	0	6	9	285	286	566
PCT	.0	.0	1.0	1.5	48.6	48.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	2.9	20.0	77.1	35
06009	.0	.0	3.3	16.7	80.0	30
12015	.0	.0	5.3	10.5	84.2	19
18021	5.6	5.6	16.7	16.7	66.7	18
TOT	1	1	6	17	79	102
PCT	1.0	1.0	5.9	16.7	77.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	.4	.0	.4	2	.7
80/84	.0	.0	.0	.0	2.6	11.4	7.0	3.3	66	24.2
75/79	.0	.0	.0	.7	8.4	20.9	25.3	13.2	187	68.5
70/74	.0	.0	.0	.0	1.1	1.1	1.8	2.2	17	6.2
65/69	.0	.0	.0	.0	.0	.0	.4	.0	1	.4
TOTAL	0	0	0	2	33	92	94	52	272	100.0
PCT	.0	.0	.0	.7	12.1	33.7	34.4	19.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.7	.0	.0	.0	.0	.0	.0
.4	.1	6.7	14.8	1.5	.5	.2	.0	.0	.0
.0	1.1	10.1	49.3	7.5	.2	.0	.0	.0	.4
.0	.0	.7	3.8	1.7	.0	.0	.0	.0	.0
.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
.4	1.2	17.5	69.0	10.7	.7	.2	.0	.0	.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	87	83	79	76	73	72	79.2	150
06009	86	85	83	78	75	73	73	78.5	230
12015	86	81	79	77	74	71	65	76.9	123
18021	82	81	80	77	73	71	69	75.6	243
TOT	89	84	82	78	74	71	65	77.8	746

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	11.6	33.3	37.7	17.4	80	69
06009	.0	.0	16.5	37.6	29.4	16.5	80	25
12015	.0	.0	16.7	31.0	31.0	21.4	80	42
18021	.0	2.5	4.9	30.9	38.3	23.5	82	81
TOT	0	2	33	93	95	54	81	277

MAY

PERIOD: (PRIMARY) 1914-1969
(OVER-ALL) 1881-1969AREA 0001 PRINCESS CHARLOTTE HAY
14.05 144.3F

TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.3	.3	.0	.0	2	.0	.6
9/10	.0	.0	.0	.6	.0	.0	.3	3	.0	.8
7/8	.0	.0	.0	.6	.3	.3	.0	4	.0	1.1
6	.0	.0	.0	.0	.6	.0	.0	2	.0	.6
5	.0	.0	.3	.3	1.1	.3	.0	7	.0	1.9
4	.0	.0	.0	1.7	1.1	.3	.0	11	.0	3.1
3	.0	.0	.0	5.3	3.6	.0	.0	32	.0	8.9
2	.0	.0	.6	10.9	2.8	.3	.0	52	.0	14.5
1	.0	.0	3.9	11.7	3.3	.0	.0	68	.0	18.9
0	.0	.0	4.7	15.6	1.1	.0	.0	77	.0	21.4
-1	.3	.3	5.0	8.1	.3	.0	.0	50	.0	13.9
-2	.0	.3	2.8	5.3	.0	.0	.0	30	.0	8.4
-3	.0	.0	1.1	1.9	.0	.0	.0	11	.0	3.1
-4	.0	.3	.6	1.1	.0	.0	.0	7	.0	1.9
-5	.0	.3	.3	.0	.0	.0	.0	2	.0	.6
-6	.0	.0	.0	.3	.0	.0	.0	1	.0	.3
TOTAL	1	4	69	228	52	4	1	359	0	359
PCT	.3	1.1	19.2	63.5	14.5	1.1	.3	100.0		100.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	2.9	.0	.0	.0	.0	2.9	.0	5.7	1.4	.0	.0	.0	7.1
1-2	.0	6.4	1.4	.0	.0	.0	7.9	.0	3.6	7.1	.0	.0	.0	10.7
3-4	.0	1.1	5.4	.0	.0	.0	6.4	.0	6.1	30.0	4.3	.0	.0	46.4
5-6	.0	.0	2.9	.0	.0	.0	2.9	.0	.0	8.9	.0	.0	.0	8.9
7	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	1.4	1.4	.0	.0	1.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.4	10.7	.0	.0	.0	21.1	.0	13.4	47.9	5.7	.0	.0	68.9

PERIOD: (OVER-ALL) 1963-1969

MAY

AREA 0001 PRINCESS CHARLOTTE BAY
14.05 144.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	6.1	.0	.0	.0	6.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	2.5	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.4	8.6	.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.8	8.3	1.4	.0	.0	.0	12.5	
1-2	.0	11.1	8.3	.0	.0	.0	19.4	
3-4	.0	6.9	40.3	4.2	.0	.0	51.4	
5-6	.0	.0	13.9	.0	.0	.0	13.9	
7	.0	.0	1.4	1.4	.0	.0	2.8	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.8	26.4	65.3	5.6	.0	.0	100.0	72

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.1	15.3	27.6	9.2	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	59	3
6-7	.0	1.0	8.2	8.2	8.2	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	26	5
8-9	.0	.0	2.0	.0	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	8.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	0
TOTAL	15	16	37	17	11	1	0	1	0	0	0	0	0	0	0	0	0	0	0	98	3
PCT	15.3	16.3	37.8	17.3	11.2	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1883-1969

JUNE

AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 100.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 100.0
E	2.8	2.8	.0	.0	.0	.0	.0	5.5	.0	2.2	2.8	.0	.0	.0 91.7
SE	2.6	13.3	.8	.0	.0	.0	.1	16.8	.5	.5	4.9	.0	.0	.0 77.7
S	3.7	20.5	4.2	.0	.0	.0	.5	28.9	.0	.9	.9	.0	.0	.0 70.2
SW	20.3	3.4	.0	.0	.0	.0	.0	23.7	.0	6.8	.0	.0	.0	.0 75.3
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 .0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0 100.0
TOT PCT	3.1	12.5	1.2	.0	.0	.0	.1	17.0	.3	.9	3.7	.0	.0	.0 78.9
TOT OBS:	672													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG
0000Z	2.9	10.0	1.4	.0	.0	.0	.0	14.3	.7	.0	2.9	.0	.0	.0 82.1
0600Z	2.8	10.7	.5	.0	.0	.0	.0	14.0	.5	1.4	3.3	.0	.0	.0 82.2
1201Z	5.0	9.2	2.5	.0	.0	.0	.0	17.6	.0	2.5	3.4	.0	.0	.0 78.2
1802Z	3.2	17.1	.9	.0	.0	.0	.0	21.2	.5	.5	4.6	.0	.0	.0 73.7
TOT PCT	3.3	12.3	1.2	.0	.0	.0	.1	17.0	.4	1.0	3.6	.0	.0	.0 78.8
TOT OBS:	690													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	.0	.0	.0	.0	.0		.2	2.5		.0	.0	1.4	.0	.0	.0	.0	.0
NE	.4	.7	.0	.0	.0	.0		1.2	4.8		.0	.0	1.4	.0	.0	.0	.7	1.3
E	1.0	7.6	9.9	.2	.0	.0		14.8	10.4		11.0	14.5	18.5	19.6	21.1	13.1	14.6	8.7
SE	4.1	31.1	25.4	2.7	.0	.0		63.4	11.2		68.0	63.4	60.5	62.3	67.1	66.3	60.5	65.4
S	1.4	8.0	5.5	.9	.0	.0		15.9	10.8		21.0	16.8	12.4	12.3	11.8	16.7	16.3	19.9
SW	.4	1.5	.3	.0	.0	.0		2.2	7.2		.0	2.0	3.4	.7	.0	1.8	3.2	2.9
W	.1	.2	.1	.0	.0	.0		.3	7.4		.0	.3	.0	.0	.0	.0	1.2	.3
NW	.4	.5	.0	.0	.0	.0		.8	4.1		.0	1.4	.0	.7	.0	.0	2.0	1.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0		.0	1.1	2.0	.7	.0	2.1	1.4	.5
TOT OBS	87	471	354	37	0	0		949	10.6		25	176	147	138	19	141	147	155
TOT PCT	9.2	49.6	37.3	3.9	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	18
N	.2	.0	.0	.0	.0	.0	.2	2.5	.0	.7	.0	.0
NE	.9	.3	.0	.0	.0	.0	1.2	4.8	.5	2.5	.0	1.0
E	3.9	8.2	2.7	.1	.0	.0	14.8	10.4	14.1	19.0	14.1	11.6
SE	12.5	37.9	11.7	1.2	.0	.0	63.4	11.2	63.9	61.6	66.4	63.0
S	4.5	8.4	2.4	.6	.0	.0	15.9	10.8	17.3	12.4	16.1	18.2
SW	1.1	1.1	.1	.0	.0	.0	2.2	7.2	1.7	2.1	1.6	3.1
W	.2	.1	.0	.0	.0	.0	.3	7.4	.2	.0	.0	.7
NW	.7	.1	.0	.0	.0	.0	.8	4.1	1.2	.4	.0	1.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3						1.3	.0	1.0	1.4	1.9	1.0
TOT OBS	240	531	160	16	0	949	10.6		201	285	160	303
TOT PCT	25.3	56.0	16.9	1.9	.0	100.0			100.0	100.0	100.0	100.0

AREA 0001 PRINCESS CHARLOTTE BAY
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PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
00003	1.0	7.5	48.8	39.3	3.5	.0	0	10.7	100.0	201
00009	1.4	4.1	44.6	41.1	3.9	.0	0	10.8	100.0	285
12615	1.9	3.8	51.9	38.8	3.8	.0	0	11.0	100.0	100
18621	1.0	9.2	53.8	31.7	4.3	.0	0	10.2	100.0	363
TOT	12	75	471	354	37	0	0	10.6		949
PCT	1.3	7.9	49.6	37.2	3.9	.0	.0	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM $\geq 4/H$)
AND OCCURRENCE OF NM $\leq 5/8$ BY WIND DIRECTION

WNO DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ALL HGT	TOTAL OBS
N	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	9.3	2.9	9.3	.0	3.6	.0	.0	1.4	4.3	1.1	.0	.0	.0	.0	.0	.0	.0	14.6
SE	23.6	13.2	17.5	7.1	3.8	.0	.0	.0	6.1	6.4	6.1	1.4	.0	.0	.0	.0	.0	41.4
S	5.7	1.1	6.1	.0	4.1	.0	.0	.0	1.1	1.1	3.9	.0	.0	.0	.0	.0	.0	6.8
SW	.4	.0	1.4	.0	5.8	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.4
W	1.1	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	29	12	24	5	70	3.7	.0	.0	1	8	6	8	1	.0	.0	.0	.0	46
TOT PCT	41.4	17.1	34.3	7.1	100.0		.0	.0	1.4	11.4	8.6	11.4	1.4	.0	.0	.0	.0	65.7

CUMULATIVE PCT FRFQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	■ OR ≥10	■ OR ≥5	■ OR ≥2	■ OR ≥1	■ OR ≥1/2	■ OR ≥1/4	■ OR ≥50YD	■ OR ≥0
■ OR ≥4500	.0	.0	.0	.0	.0	.0	.0	.0
■ OR ≥3000	.0	.0	.0	.0	.0	.0	.0	.0
■ OR ≥3500			1.4	1.4	1.4	1.4	1.4	1.4
■ OR ≥2000	9.7	12.5	12.5	12.5	12.5	12.5	12.5	12.5
■ OR ≥1000	18.1	20.8	20.8	20.8	20.8	20.8	20.8	20.8
■ OR ≥600	27.6	33.3	33.3	33.3	33.3	33.3	33.3	33.3
■ OR ≥200	29.2	34.7	36.1	36.1	36.1	36.1	36.1	36.1
■ OR ≥150	29.2	34.7	36.1	36.1	36.1	36.1	36.1	36.1
■ OR ≥0	29.2	34.7	36.1	36.1	36.1	36.1	36.1	36.1
TOTAL	21	25	26	26	26	26	26	26

PCT FREQ NH 45/81 63.9

PERCENTAGE FRFQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS CD	TOTAL OBS
9.2	19.7	15.8	10.5	5.3	5.3	13.2	10.5	10.5	.0	76

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1883-1969

JUNE

AREA 0001 PRINCESS CHARLOTTE BAY
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.3	2.1	.1	.0	.0	.0	.0	.0	2.5	
	TOT %	.0	.0	.3	2.2	.3	.0	.0	.0	.0	.0	2.8	
1<2	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
5<10	PCP	.0	.0	.6	10.2	4.3	.5	.0	.0	.0	.0	15.6	
	NO PCP	.0	1.1	8.0	37.6	8.0	.9	.0	.7	.0	.1	56.5	
	TOT %	.0	1.1	8.6	47.8	12.4	1.4	.0	.7	.0	.1	72.2	
10+	PCP	.0	.0	.1	.7	.1	.0	.0	.0	.0	.0	.9	
	NO PCP	.1	.1	4.4	14.9	3.2	.8	.1	.0	.0	.0	23.7	
	TOT %	.1	.1	4.5	15.6	3.2	.8	.1	.0	.0	.0	24.6	
TOT OBS													
TOT PCT													
		.1	1.3	13.5	66.0	16.0	2.2	.1	.7	.0	.1	100.0	677

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	.3	
	4-10	.0	.0	.2	1.2	.1	.0	.0	.0	.0	.0	1.6	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.2	1.9	.2	.0	.0	.0	.0	.0	2.4	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.3	.1	.0	.0	.0	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.2	.2	.0	.0	.0	.0	.0	.6	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.5	.2	.0	.0	.0	.0	.0	.9	
5<10	0-3	.0	.2	.6	3.5	1.0	.1	.0	.4	.0	.5	6.4	
	4-10	.0	.7	4.7	21.7	5.0	.7	.0	.4	.0	.0	33.2	
	11-21	.0	.0	2.4	14.5	3.4	.4	.0	.0	.0	.0	20.6	
	22+	.0	.0	.1	1.6	1.0	.0	.0	.0	.0	.0	2.6	
	TOT %	.0	.9	7.7	41.2	10.4	1.2	.0	.7	.0	.5	62.7	
10+	0-3	.2	.1	.3	.4	.4	.1	.1	.1	.0	.2	2.0	
	4-10	.0	.1	2.4	9.1	1.9	.5	.0	.0	.0	.0	14.0	
	11-21	.0	.0	3.4	10.6	2.5	.*	.1	.0	.0	.0	16.6	
	22+	.0	.0	.0	.9	.1	.0	.0	.0	.0	.0	1.0	
	TOT %	.2	.2	6.0	21.0	4.9	.7	.2	.1	.0	.2	33.5	
TOT OBS													
TOT PCT													
		.2	1.2	14.2	64.9	15.9	1.8	.2	.8	.0	.7	100.0	802

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PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1883-1969AREA 0001 PRINCESS CHARLOTTE BAY
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR (GMT)	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <4/8 ANY HGT	TOTAL OBS
00003	.0	.0	4.0	12.0	12.0	12.0	4.0	.0	.0	.0	44.0	56.0	25
06009	.0	.0	4.8	14.3	9.5	19.0	.0	.0	.0	.0	47.6	52.4	21
12015	.0	.0	.0	.0	7.1	.0	.0	.0	.0	.0	7.1	92.9	14
18021	.0	.0	.0	25.0	.0	8.2	.0	.0	.0	.0	33.3	66.7	12
TOT	0	0	2	9	6	6	1	0	0	0	26	46	72
PCT	.0	.0	2.8	12.5	8.3	11.1	1.4	.0	.0	.0	36.1	63.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.8	.4	1.2	55.4	41.1	168
06009	.0	2.0	.4	.8	69.2	27.6	250
12015	.0	2.2	1.5	.7	55.1	40.4	136
18021	.0	3.0	.0	1.1	66.9	28.9	266
TOT	0	19	4	8	519	270	820
PCT	.0	2.3	.5	1.0	63.3	32.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	4.0	16.0	48.0	56.0	25
06009	.0	4.8	19.0	28.6	52.4	21
12015	.0	.0	.0	7.1	92.9	14
18021	.0	.0	25.0	8.3	66.7	12
TOT	0	2	11	15	46	72
PCT	.0	2.8	15.3	20.8	63.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.4	1.2	3.1	1.9	.4	18	6.9
75/79	.0	.0	.0	.4	5.0	22.4	20.5	10.8	153	59.1
70/74	.0	.0	.0	2.3	2.3	7.7	9.3	8.5	76	30.1
65/69	.0	.0	.0	.0	1.2	.0	.8	1.2	8	3.1
60/64	.0	.0	.0	.0	.0	.0	.4	.4	7	.8
TOTAL	0	0	0	8	25	86	85	55	259	100.0
PCT	.0	.0	.0	3.1	9.7	33.2	32.8	21.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	1.6	3.5	1.4	.0	.0	.4	.0	.0
.0	2.7	12.7	35.6	5.5	1.7	.0	.4	.0	.4
.0	.4	4.3	15.3	7.0	1.6	.3	1.2	.0	.0
.0	.0	.0	1.5	1.0	.6	.0	.0	.0	.0
.0	.0	.0	.6	.2	.0	.0	.0	.0	.0
.0	3.1	18.7	56.5	15.2	4.0	.3	1.9	.0	.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	82	82	77	71	68	67	76.4	201
06009	83	82	81	77	72	69	67	76.3	292
12015	81	80	79	75	71	69	69	75.0	158
18021	80	79	79	75	69	66	61	74.5	306
TOT	84	82	80	76	70	68	61	75.7	957

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.0	10.0	40.0	26.7	18.3	79	60		
06009	.0	3.4	9.2	42.5	31.0	13.8	79	67		
12015	.0	2.3	14.0	20.9	41.9	20.9	82	44		
18021	.0	1.2	7.1	23.5	37.6	30.6	83	85		
TOT	0	8	26	90	93	58	81	275		

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PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1883-1969AREA 0001 PRINCESS CHARLOTTE BAY
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	TOT W FOG	NO FOG
7/8	.0	.0	.0	.0	.2	1	.0
6	.0	.0	.0	.8	.3	7	1.1
5	.0	.0	.2	2.1	1.5	23	3.6
4	.0	.0	.5	5.2	1.3	43	7.0
3	.0	.2	2.9	8.3	.8	75	11.3
2	.0	.5	5.7	11.6	.3	111	17.1
1	.0	1.1	7.8	7.8	.2	104	16.5
0	.0	1.5	10.0	4.2	.5	99	15.8
-1	.0	.5	4.9	1.8	.2	45	6.9
-2	.0	1.5	3.6	.8	.2	37	6.0
-3	.0	1.0	2.3	.7	.0	24	3.8
-4	.3	.5	1.5	.5	.0	17	2.4
-5	.0	.3	.5	1.5	.0	14	2.3
-6	.2	.0	.7	.0	.0	5	.8
-7/-8	.0	.3	.8	.0	.0	7	1.1
-9/-10	.2	.0	.0	.0	.0	1	.2
TOTAL	4	45	253	278	33	613	589
PCT	.7	7.3	41.3	45.4	5.4	100.0	96.1

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	3.5	1.6	.0	.0	.0	.0	5.1	.0	6.3	8.6	.7	.0	.0	.0	14.8
3-4	.0	2.7	7.0	.0	.0	.0	.0	9.8	.0	7.0	18.8	.0	.0	.0	.0	25.8
5-6	.0	.0	2.3	.0	.0	.0	.0	2.3	.0	3.1	8.6	.0	.0	.0	.0	11.7
7	.0	.0	7.0	.0	.0	.0	.0	7.0	.0	.0	5.5	1.6	.0	.0	.0	7.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	1.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.3	18.0	.0	.0	.0	.0	24.2	.0	16.4	43.0	1.6	.0	.0	.0	60.9

PERIOD: (OVER-ALL) 1963-1969

JUNE

AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	4.3	3.9	.0	.0	.0	8.2	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.2	2.3	.0	.0	.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.6	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.5	7.8	.0	.0	.0	13.3	.0	.0	.4	.0	.0	.0	.4	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	14.1	14.1	.0	.0	.0	28.1	.0
3-4	.0	10.9	29.7	.0	.0	.0	40.6	.0
5-6	.0	3.1	12.5	.0	.0	.0	15.6	.0
7	.0	.0	12.5	1.6	.0	.0	14.1	.0
8-9	.0	.0	1.6	.0	.0	.0	1.6	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	28.1	70.3	1.6	.0	.0	100.0	64

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	26.0	27.3	7.8	6.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	53	3
6-7	.0	.0	6.5	5.2	5.2	4.6	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	6
8-9	.0	.0	.0	1.3	2.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2
INDET	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	4
TOTAL	2	20	27	11	11	2	4	0	0	0	0	0	0	0	0	0	0	0	0	100.0	
PCT	2.6	26.0	35.1	14.3	14.3	2.6	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1855-1969AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23.5	.0	.0	.0	76.5
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	.0	1.4	.0	95.8
E	.6	4.6	.0	.0	.0	.0	.0	5.2	.0	.0	1.7	.0	1.4	.0	91.6
SE	2.2	7.4	.6	.0	.0	.0	.0	10.2	.1	.1	3.8	.0	.8	.0	85.0
S	3.0	10.3	1.3	.0	.0	.0	.0	14.6	.0	.0	6.3	.0	3.2	.0	75.9
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	.0	.0	95.5
W	.0	5.6	.0	.0	.0	.0	.0	5.6	.0	.0	2.8	.0	.0	.0	91.7
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.9	6.9	.6	.0	.0	.0	.0	9.4	.1	.1	3.8	.0	1.2	.0	85.5
TOT OBS:	1205														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATIUN TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	.9	3.8	.9	.0	.0	.0	.0	5.6	.0	.0	4.3	.0	1.7	.0	88.5
06009	1.0	5.9	.5	.0	.0	.0	.0	7.3	.0	.0	5.1	.0	1.2	.0	86.3
12015	3.3	6.1	.0	.0	.0	.0	.0	9.4	.0	.0	2.3	.0	.5	.0	87.8
18021	2.4	9.3	.7	.0	.0	.0	.0	12.4	.2	.2	2.4	.0	1.0	.0	83.7
TOT PCT	1.8	6.6	.6	.0	.0	.0	.0	9.0	.1	.1	3.6	.0	1.1	.0	86.1
TOT OBS:	1267														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.2	.2	.0	.0	.0	.0		.4	3.7		.0	.0	1.2	.4	.0	.2	.0	.4
NE	1.0	1.6	.2	.0	.0	.0		2.7	5.2		.0	1.8	5.6	4.4	.0	1.7	2.4	1.0
E	1.2	7.7	5.2	.6	.0	.0		14.7	10.3		12.9	14.2	20.2	16.9	10.9	13.7	12.6	10.8
SE	4.2	28.8	25.3	5.9	.0	.0		64.2	12.2		37.1	62.6	57.5	64.2	79.3	69.4	68.8	63.3
S	1.7	7.5	3.7	.5	.0	.0		13.4	9.7		23.6	15.1	12.9	11.9	9.8	11.8	9.7	17.5
SW	.4	1.3	.2	.0	.0	.0		1.8	5.9		3.6	2.0	.4	.0	.0	2.1	3.0	3.4
W	.7	.7	.0	.0	.0	.0		1.4	3.7		2.9	1.4	.7	.4	.0	1.1	2.0	2.5
NW	.1	.3	.0	.0	.0	.0		.4	5.3		.0	.7	.7	.4	.0	.0	.0	.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1							1.1	.0		.0	2.2	.7	1.3	.0	.0	1.6	.8
TOT OBS	168	764	551	112	0	0	1595		11.0		35	278	272	236	23	234	254	263
TOT PCT	10.5	47.9	34.5	7.0	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	.3	*	.0	.0	.0	.0	.4	3.7	.0	.8	.2	.2	
NE	2.0	.7	*	.0	.0	.0	2.7	5.2	1.6	5.1	1.6	1.6	
E	4.5	7.3	2.8	*	.0	.0	14.7	10.3	14.1	18.7	13.4	11.7	
SE	13.5	30.7	18.1	1.9	.0	.0	64.2	12.2	62.0	60.6	70.3	66.0	
S	4.2	7.0	2.1	.1	.0	.0	13.4	9.7	16.1	12.4	11.6	13.7	
SW	1.3	.5	*	.0	.0	.0	1.8	5.9	2.2	.2	1.9	3.2	
W	1.3	.1	.0	.0	.0	.0	1.4	3.7	1.6	.6	1.0	2.2	
NW	.3	.1	.0	.0	.0	.0	.4	5.3	.6	.6	.0	.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.1					.0	1.1	.0	1.9	1.0	.0	1.2	
TOT OBS	455	799	362	33	0	1595		11.0	313	508	297	517	
TOT PCT	28.5	46.3	23.1	2.1	.0		100.0		100.0	100.0	100.0	100.0	

JULY

PERIOD: (PRIMARY) 1897-1949
(OVER-ALL) 1855-1949AREA 0001 PRINCESS CHARLOTTE HAY
14.15 144.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	1.9	9.9	48.2	33.9	6.1	.0	.0	.0	10.7	100.0	313
0600	1.0	9.1	45.5	36.7	8.3	.0	.0	.0	11.3	100.0	508
1200	.0	9.3	44.4	38.1	8.2	.0	.0	.0	11.8	100.0	257
1800	1.2	9.7	51.8	31.5	5.8	.0	.0	.0	10.4	100.0	317
TOT	17	151	764	551	112	.0	.0	.0	11.0		1595
PCT	1.1	9.5	47.9	34.5	7.0	.0	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	.8	.0	.0	.0		2.0
NE	2.3	.0	.0	.0		1.1
E	5.0	3.5	7.8	.8		4.2
SE	25.8	14.8	16.0	3.3		3.3
S	9.3	2.8	4.0	.0		2.3
SW	.0	2.0	.3	.0		3.7
W	2.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	45	23	28	4	100	3.2
TOT PCT	45.0	23.0	28.0	4.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3
E	.0	.0	.0	1.8	1.0	.0	.0	.0	.0	.0	.8	13.5
SE	.0	.0	.0	4.5	4.3	3.0	.0	.0	.0	.0	.3	47.8
S	.0	.0	.0	.8	1.8	.0	.0	.0	.0	.0	.0	13.5
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	0	0	0	7	7	3	0	0	0	0	1	82
TOT PCT	.0	.0	.0	7.0	7.0	3.0	.0	.0	.0	1.0	82.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >3500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >2000	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
= OR >1000	10.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
= OR >600	14.0	16.0	18.0	18.0	18.0	18.0	18.0	18.0
= OR >300	14.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
= OR >150	14.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
= OR >0	14.0	18.0	18.0	18.0	18.0	18.0	18.0	18.0
TOTAL	14	18	18	18	18	18	18	18

TOTAL NUMBER OF OBS: 100

PCT FREQ NH <5/8 82.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	19.2	23.1	15.4	14.4	9.6	4.8	6.7	2.9	3.8	104

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1855-1969

JULY

AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.1	.4	.1	.0	.0	.0	.0	.0	.6	
	NO PCP	.1	.1	.3	3.6	.9	.0	.0	.0	.0	.0	5.0	
	TOT %	.1	.1	.4	4.0	1.0	.0	.0	.0	.0	.0	5.6	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	*	.2	.4	.3	.0	.0	.0	.0	.0	1.0	
	TOT %	.0	*	.2	.4	.3	.0	.0	.0	.0	.0	1.0	
2<5	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
5<10	PCP	.0	.0	.7	6.0	1.7	.0	.1	.0	.0	.0	8.5	
	NO PCP	.1	2.5	10.3	47.7	7.1	1.7	1.2	.3	.0	.1	71.0	
	TOT %	.1	2.5	10.9	53.7	8.9	1.7	1.2	.3	.0	.1	79.4	
10+	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.2	.3	2.8	7.6	2.3	.2	.2	.1	.0	.0	13.7	
	TOT %	.2	.3	2.8	7.8	2.3	.2	.2	.1	.0	.0	13.9	
TOT OBS													1205
TOT PCT		.4	3.0	14.4	66.0	12.5	1.8	1.5	.4	.0	.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.2	1.0	.5	.0	.0	.0	.0	.0	1.7	
	11-21	.0	.0	.1	1.9	.3	.0	.0	.0	.0	.0	2.4	
	22+	.0	.0	*	.5	*	.0	.0	.0	.0	.0	.6	
	TOT %	.1	.1	.4	3.5	.9	.0	.0	.0	.0	.0	4.9	
1<2	0-3	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.1	.2	.1	.0	.0	.0	.0	.0	.3	
	11-21	.0	*	*	.4	.1	.0	.0	.0	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	.2	.7	.3	.0	.0	.0	.0	.0	1.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.3	
5<10	0-3	.1	1.0	.8	3.6	1.5	.4	.5	.1	.0	.1	8.1	
	4-10	.0	1.1	5.1	20.7	4.2	1.0	.5	.1	.0	.0	32.8	
	11-21	.0	*	3.2	18.3	1.8	.1	.0	.0	.0	.0	23.4	
	22+	.0	.0	.6	5.2	.3	.0	.0	.0	.0	.0	6.2	
	TOT %	.1	2.2	9.6	47.7	7.9	1.4	1.1	.3	.0	.1	70.4	
10+	0-3	.0	.1	.5	.8	*	.0	.1	.0	.0	.5	1.9	
	4-10	.2	.6	2.2	6.9	2.2	.2	.1	.1	.0	.0	12.6	
	11-21	.0	.1	1.5	5.0	1.1	.1	.0	.0	.0	.0	7.8	
	22+	.0	.0	.0	.8	.1	.0	.0	.0	.0	.0	.9	
	TOT %	.2	.8	4.3	13.4	3.5	.3	.2	.1	.0	.5	23.2	
TOT OBS													1394
TOT PCT		.3	3.1	14.6	65.5	12.5	1.7	1.3	.4	.0	.6	100.0	

JULY

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1855-1969AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	6.1	12.1	3.0	.0	.0	.0	.0	21.2	78.8	33
06009	.0	.0	.0	14.3	7.1	.0	.0	.0	.0	.0	21.4	78.6	28
12015	.0	.0	.0	4.5	4.5	4.5	.0	.0	.0	.0	13.6	86.4	22
18021	.0	.0	.0	.0	.0	5.0	.0	.0	.0	5.0	10.0	90.0	20
TOT	0	0	0	7	7	3	0	0	0	1	18	85	103
PCT	.0	.0	.0	6.8	6.8	2.9	.0	.0	.0	1.0	17.5	82.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	4.4	1.1	.0	63.6	30.9	272
06009	.0	6.1	1.1	.4	72.9	19.5	473
12015	.0	3.8	.8	.8	70.8	23.8	240
18021	.0	4.0	1.5	.0	75.2	19.3	472
TOT	0	69	17	4	1043	374	1457
PCT	.0	4.7	1.2	.3	71.6	22.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	6.1	15.2	78.8	33
06009	.0	.0	14.8	7.4	77.8	27
12015	.0	.0	5.0	10.0	85.0	20
18021	.0	.0	.0	10.0	90.0	20
TOT	0	0	7	11	82	100
PCT	.0	.0	7.0	11.0	82.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.4	.0	1.4	1.4	.0	.0	9	3.2
75/79	.0	.0	.7	.0	3.2	13.0	9.1	8.1	97	34.0
70/74	.0	.0	.0	1.1	10.5	12.6	15.8	18.9	168	58.9
65/69	.0	.0	.0	.0	.7	.4	1.4	1.4	11	3.9
TOTAL	0	0	3	3	45	78	75	81	285	100.0
PCT	.0	.0	1.1	1.1	15.8	27.4	26.3	28.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80	.0	.0	1.8	1.1	.3	.0	.0	.0	.0	.0
75	.4	.4	6.4	22.6	2.7	.5	.0	.7	.0	.4
70	.6	2.0	8.5	34.0	9.9	2.6	.9	.4	.0	.0
65	.0	.0	.8	2.0	1.1	.0	.0	.0	.0	.0
TOT	1.0	2.4	17.5	59.7	13.9	3.2	.9	1.1	.0	.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	85	82	80	76	71	69	68	75.9	311
06009	81	80	79	75	71	69	61	75.2	575
12015	81	79	77	74	70	67	63	73.5	262
18021	82	79	77	73	69	66	59	73.2	577
TOT	85	81	79	74	70	68	59	74.4	1635

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.0	17.9	31.3	28.4	19.4	78	67		
06009	.0	2.2	18.3	34.4	23.7	21.5	79	93		
12015	.0	2.2	13.3	20.0	31.1	33.3	82	45		
18021	.0	1.1	11.4	22.7	27.3	37.5	83	88		
TOT	0	6	45	82	79	81	81	293		

JULY

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1855-1969AREA 0001 PRINCESS CHARLOTTE BAY
14.1S 144.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	.1	1	.0	.1
7/8	.0	.0	.0	.3	.3	6	.0	.6
6	.0	.1	.2	1.0	.1	14	.0	1.4
5	.0	.0	.2	2.0	.3	25	.1	2.4
4	.0	.1	1.8	5.1	.2	73	.0	7.2
3	.0	.0	7.0	6.9	.1	142	1.4	12.6
2	.0	1.5	13.3	4.2	.0	193	1.7	17.4
1	.0	1.5	18.1	1.2	.0	210	1.0	19.8
0	.1	4.1	11.6	.9	.2	170	.3	16.5
-1	.1	3.8	3.1	.2	.0	72	.0	7.1
-2	.4	4.1	1.7	.2	.1	65	.1	6.3
-3	.2	1.1	.6	.1	.0	20	.0	2.0
-4	.1	.7	.2	.0	.0	10	.0	1.0
-5	.1	.6	.1	.0	.0	8	.0	.8
-6	.1	.0	.0	.0	.0	1	.0	.1
-7/-8	.2	.0	.0	.0	.0	2	.0	.2
TOTAL	13	176	585	224	14	1012	4.5	95.5
PCT	1.3	17.4	57.8	22.1	1.4	100.0	4.5	95.5

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.0	.0	.0	.0	.0	1.0	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	1.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	.0	.0	.0	.0	1.0	.0	1.6	1.3	.0	.0	.0	2.9

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	5.1	.0	.0	.0	.0	5.1
1-2	.0	4.5	1.0	.0	.0	.0	5.4	1.3	7.1	6.7	.0	.0	.0	15.1
3-4	.0	3.5	1.0	.0	.0	.0	4.5	.0	5.8	18.3	.0	.0	.0	24.0
5-6	.0	.0	4.5	.0	.0	.0	4.5	.0	.3	9.3	4.5	.0	.0	14.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	2.6	.0	.0	2.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.0	6.4	.0	.0	.0	14.4	1.3	18.3	34.6	7.1	.0	.0	61.2

PERIOD: (OVER-ALL) 1963-1969

JULY

AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.3F

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	2.6	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	5.1	.0	.0	.0	5.1	.0	2.6	.0	.0	.0	.0	2.6	.0
3-4	.0	1.0	1.3	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	1.0	2.9	1.9	.0	.0	5.8	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.5	10.3	1.9	.0	.0	16.7	.0	2.6	.0	.0	.0	.0	2.6	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	.0	11.5	.0	.0	.0	.0	11.5	085
1-2	1.3	14.1	14.1	.0	.0	.0	29.5	
3-4	.0	10.3	20.5	.0	.0	.0	30.8	
5-6	.0	1.3	16.7	6.4	.0	.0	24.4	
7	.0	.0	1.3	2.6	.0	.0	3.8	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.3	37.2	52.6	9.0	.0	.0	100.0	78

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	10.8	21.5	26.9	7.5	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	3
6-7	.0	.0	9.7	11.8	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	4
8-9	.0	.0	.0	2.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	2.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	1
TOTAL	12	20	35	20	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	93	3
PCT	12.9	21.5	37.6	21.5	5.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1855-1969AREA 0001 PRINCESS CHARLOTTE HAY
14.25 144.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN SHWR	RAIN PCPN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	.0	.0	88.9
NE	.9	.0	.0	.0	.0	.0	.0	.9	.0	.0	1.9	.0	.0	.0	97.2
E	.1	.6	.4	.0	.0	.0	.0	1.1	.0	.0	3.2	.0	.0	.0	95.7
SE	1.4	6.3	.9	.0	.0	.0	.1	8.8	.1	.0	6.1	.0	.5	.0	84.6
S	1.6	13.7	.0	.0	.0	.0	.0	15.3	1.1	.0	3.3	.0	.0	.0	80.3
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	.0	7.3	.0	85.5
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	33.3	.0	.0	.0	.0	.0	.0	33.3	.0	.0	.0	.0	.0	.0	66.7
TOT PCT	1.1	4.9	.7	.0	.0	.0	.1	6.8	.1	.0	5.0	.0	.4	.0	87.7
TOT OBS:	1522														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN SHWR	RAIN PCPN	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	1.1	3.5	1.1	.0	.0	.0	.0	5.6	.0	.0	7.0	.0	.7	.0	86.0
06009	1.0	4.7	.6	.0	.0	.0	.0	6.3	.0	.0	5.7	.0	.4	.0	87.6
12015	.8	4.9	.8	.0	.0	.0	.0	6.4	.0	.0	3.0	.0	.4	.0	90.2
18021	1.7	5.6	.4	.0	.0	.0	.2	7.9	.4	.0	4.1	.0	.2	.0	87.4
TOT PCT	1.2	4.8	.6	.0	.0	.0	.1	6.7	.1	.0	5.0	.0	.4	.0	87.8
TOT OBS:	1575														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	.4	.1	.1	.0	.0	.0	.0	.5	4.3	.0	1.0	.7	.5	.0	.4	.7	.0
NE	1.0	1.9	.4	.0	.0	.0	.0	3.4	6.1	3.7	2.2	4.5	5.8	4.5	4.2	2.1	1.5
E	3.5	16.0	5.6	.8	.1	.0	.0	25.8	8.9	2.8	23.2	26.7	30.1	8.0	29.9	27.0	22.3
SE	3.5	34.0	21.3	2.8	.0	.0	.0	61.6	10.8	79.6	63.1	60.3	59.8	80.7	60.1	60.3	62.7
S	.5	4.1	1.5	.5	.0	.0	.0	6.6	10.8	9.3	7.5	5.8	3.5	6.8	4.2	6.8	11.3
SW	.4	.5	.1	.0	.0	.0	.0	.9	5.3	.9	1.6	1.2	.0	.0	.2	1.4	1.2
W	.2	.3	.0	.0	.0	.0	.0	.5	4.4	.0	.5	.5	.0	.0	.4	1.1	.7
NW	.2	.2	.0	.0	.0	.0	.0	.4	3.6	.0	.6	.0	.3	.0	.6	.4	.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2	.0	.0	.0	.0	.0	.0	.2	.0	3.7	.3	.3	.0	.0	.0	.4	.0
TOT OBS	177	1027	519	73	1	0	1797		10.0	27	314	291	286	22	271	285	301
TOT PCT	9.8	57.2	28.9	4.1	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+	00 03				06 15	12 18	21	
N	.5	.0	.1	.0	.0	.5	4.3	.9	.6	.3	.3	1.3	
NE	2.1	1.2	.4	.0	.0	3.4	6.1	2.3	2.1	4.3	1.8	1.8	
E	9.7	13.3	2.5	.3	.0	25.8	8.9	21.6	28.4	28.2	24.6	24.6	
SE	14.0	35.3	11.0	1.3	.0	61.6	10.8	64.4	60.1	61.7	61.5	61.5	
S	1.8	3.5	.8	.5	.0	6.6	10.8	7.6	4.6	4.4	9.1	9.1	
SW	.6	.3	.0	.0	.0	.9	5.3	1.5	.6	.2	1.3	1.3	
W	.4	.1	.0	.0	.0	.5	4.4	.4	.3	.3	.9	.9	
NW	.4	.0	.0	.0	.0	.4	3.6	.6	.2	.5	.3	.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.2	.0	.0	.0	.0	.2	.0	.6	.2	.0	.2	.2	
TOT OBS	536	965	258	38	0	1797		341	577	293	586	586	
TOT PCT	29.8	53.7	14.4	2.1	.0		100.0	100.0	100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1855-1969

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14.25 144.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0900	.6	9.7	58.1	29.6	2.1	.0	.0	.0	9.6	100.0	341
0600	.2	8.7	54.8	31.2	5.0	.2	.0	.0	10.4	100.0	577
1200	.0	9.2	53.2	31.7	5.8	.0	.0	.0	10.7	100.0	293
1800	.2	10.8	60.9	24.7	3.4	.0	.0	.0	9.5	100.0	586
TOT	.4	17.3	102.7	51.9	7.3	.1	.0	.0	10.0		1797
PCT	.2	9.6	57.2	28.9	4.1	.1	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8-6	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	2.6	1.2	.0	.0		1.7
E	8.0	6.3	.9	1.2		2.6
SE	21.7	20.2	19.9	7.4		3.7
S	1.2	1.8	3.0	.9		4.7
SW	1.2	.3	.0	.0		.6
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	1.2	.0	.0	.0		1.0
TOT OBS	31	25	20	8	94	3.4
TOT PCT	30.9	29.8	23.8	9.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8
E	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	15.5
SE	.0	.0	3.9	3.6	6.3	3.0	1.2	1.2	.0	.0	.0	50.3
S	.0	.0	.9	1.2	.9	.9	.0	.0	.0	.0	.0	3.0
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2
TOT OBS	0	0	4	4	6	4	1	1	0	0	0	84
TOT PCT	.0	.0	4.8	4.8	7.1	4.8	1.2	1.2	.0	.0	76.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	.0	.0	.0	.0	.0	.0	.0
>6000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>5500	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
>5000	5.8	7.0	7.0	7.0	7.0	7.0	7.0	7.0
>4500	11.6	14.0	14.0	14.0	14.0	14.0	14.0	14.0
>4000	15.1	18.6	18.6	18.6	18.6	18.6	18.6	18.6
>3500	19.8	23.3	23.3	23.3	23.3	23.3	23.3	23.3
>3000	19.8	23.3	23.3	23.3	23.3	23.3	23.3	23.3
>2500	19.8	23.3	23.3	23.3	23.3	23.3	23.3	23.3
>2000	19.8	23.3	23.3	23.3	23.3	23.3	23.3	23.3
TOTAL	17	20	20	20	20	20	20	20

TOTAL NUMBER OF OBS: 86

PCT FREQ NH <5/8: 76.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	13.0	16.3	18.5	19.6	8.7	8.7	5.4	4.3	5.4	.0	92

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1855-1969

AUGUST

AREA 0001 PRINCESS CHARLOTTE BAY
14.2S 144.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.3	.3
	NO PCP	.1	.1	1.0	4.2	.4	.1	.0	.0	.0	.0	5.9	5.9
	TOT %	.1	.1	1.0	4.5	.5	.1	.0	.0	.0	.0	6.2	6.2
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	.3
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	.3
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	.1
5<10	PCP	.0	.0	.3	5.0	.8	.0	.0	.0	.0	.1	6.2	6.2
	NO PCP	.5	3.0	22.5	44.5	4.1	.7	.3	.3	.0	.1	76.0	76.0
	TOT %	.5	3.0	22.7	49.5	5.0	.7	.3	.3	.0	.2	82.2	82.2
10+	PCP	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.3	.3
	NO PCP	.1	.4	2.0	7.8	.6	.1	.0	.0	.0	.0	11.0	11.0
	TOT %	.1	.4	2.0	8.0	.6	.1	.0	.0	.0	.0	11.2	11.2
TOT OBS													1571
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.3	.3
	4-10	.0	.1	.4	2.2	.2	.1	.0	.0	.0	.0	2.9	2.9
	11-21	.1	.0	.3	1.4	.2	.0	.0	.0	.0	.0	1.9	1.9
	22+	.0	.0	.2	.4	.0	.0	.0	.0	.0	.0	.5	.5
	TOT %	.1	.1	.9	4.2	.4	.1	.0	.0	.0	.0	5.7	5.7
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.3	.3
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.3	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.4	.4
5<10	0-3	.3	.9	3.4	3.3	.5	.4	.1	.1	.0	.2	9.3	9.3
	4-10	.1	1.4	13.6	27.1	2.7	.2	.2	.2	.0	.0	45.5	45.5
	11-21	.0	.4	3.6	14.1	.9	.0	.0	.0	.0	.0	19.0	19.0
	22+	.0	.0	.6	2.0	.6	.0	.0	.0	.0	.0	3.2	3.2
	TOT %	.4	2.8	21.1	46.5	4.7	.6	.3	.3	.0	.2	76.9	76.9
10+	0-3	.1	.1	.3	.1	.0	.0	.0	.0	.0	.0	.5	.5
	4-10	.0	.4	1.7	5.2	.9	.1	.0	.0	.0	.0	8.2	8.2
	11-21	.0	.0	1.4	5.6	.5	.0	.0	.0	.0	.0	7.6	7.6
	22+	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.4	.4
	TOT %	.1	.5	3.4	11.1	1.4	.1	.0	.0	.0	.0	16.7	16.7
TOT OBS													1650
TOT PCT													100.0

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PERIOD: (PRIMARY) 1897-1969
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14.25 144.4F

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	3.7	.0	11.1	3.7	.0	.0	.0	.0	18.5	81.5	27
06009	.0	.0	4.8	14.3	.0	4.8	.0	.0	.0	.0	23.8	76.2	21
12015	.0	.0	4.8	.0	9.5	4.8	.0	4.8	.0	.0	23.8	76.2	21
18021	.0	.0	4.8	4.8	4.8	4.8	.0	.0	.0	.0	23.8	76.2	21
TOT	0	0	4	4	6	4	1	1	0	0	20	70	90
PCT	.0	.0	4.4	4.4	6.7	4.4	1.1	1.1	.0	.0	22.2	77.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	7.8	.7	.3	68.4	22.8	307
06009	.0	6.4	.4	.4	78.0	14.9	551
12015	.0	3.5	.0	.4	80.6	15.5	284
18021	.0	4.8	.7	.4	79.9	14.8	561
TOT	0	96	5	6	1317	279	1703
PCT	.0	5.6	.3	.4	77.3	16.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	3.8	3.8	15.4	80.8	26
06009	.0	5.0	20.0	5.0	75.0	20
12015	.0	5.3	5.3	21.1	73.7	19
18021	.0	4.8	9.5	14.3	76.2	21
TOT	0	4	8	12	66	86
PCT	.0	4.7	9.3	14.0	76.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.4	.7	1.4	1.1	1.4	14	5.0
79/79	.0	.0	.0	1.1	5.4	19.3	12.9	6.8	127	45.4
70/74	.0	.0	.0	.7	5.0	17.1	16.4	14.6	137	48.9
69/69	.0	.0	.0	.0	.0	.0	.7	.0	2	.7
TOTAL	0	0	0	6	31	92	87	64	280	100.0
PCT	.0	.0	.0	2.1	11.1	32.9	31.1	22.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.7	4.3	.0	.0	.0	.0	.0	.0
.4	2.9	7.8	30.9	2.4	.4	.0	.0	.0	.7
1.4	2.1	3.8	37.1	2.7	.4	.4	.7	.0	.4
.0	.0	.4	.4	.0	.0	.0	.0	.0	.0
1.8	5.0	12.7	72.6	5.1	.7	.4	.7	.0	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	82	80	76	73	70	66	76.4	339
06009	83	81	79	75	72	70	68	75.8	596
12015	80	78	77	74	71	68	63	74.2	298
18021	81	80	78	74	70	66	62	74.1	607
TOT	84	81	79	75	71	68	62	75.1	1840

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	18.0	41.0	24.6	16.4	79	61		
06009	.0	5.9	9.4	38.8	23.5	22.4	79	45		
12015	.0	2.0	9.8	19.6	41.2	27.5	83	51		
18021	.0	.0	8.0	29.5	35.2	27.3	83	38		
TOT	0	6	31	94	87	67	81	285		

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14.25 144.4FPERIOD: (PRIMARY) 1897-1969
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.2	.0	2	.0	.2
9/10	.0	.0	.2	.2	.0	5	.1	.3
7/8	.0	.0	.3	.4	.2	12	.1	.8
6	.0	.0	.2	.9	.1	16	.1	1.2
5	.0	.0	.6	2.3	.4	43	.1	3.2
4	.0	.0	2.6	4.9	.1	99	1.1	6.5
3	.0	.0	6.9	8.8	.1	206	.7	15.1
2	.0	1.2	15.4	5.5	.1	288	.5	21.6
1	.1	1.8	17.2	2.2	.1	278	1.2	20.1
0	.1	2.9	10.5	1.6	.0	197	.7	14.4
-1	.2	1.7	3.7	.5	.0	78	.2	5.8
-2	.2	1.7	2.2	.1	.0	54	.3	3.8
-3	.1	.5	.4	.1	.0	13	.0	1.0
-4	.2	.7	.2	.1	.0	8	.1	.5
-5	.1	.0	.0	.0	.0	1	.0	.1
-7/-8	.1	.0	.1	.0	.0	2	.0	.2
TOTAL	11	128	361	13	1302	66	5.1	94.9
PCT	.8	9.8	60.6	27.7	1.0	100.0	5.1	94.9

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	1.4
1-2	.0	.0	.0	.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	2.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	1.4	2.8	.0	.0	.0	.0	4.2
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	4.2	.0	.0	.0	.0	4.2
1-2	.0	7.3	1.4	.0	.0	.0	8.7	.0	13.5	4.5	.0	.0	.0	18.1
3-4	.0	3.5	2.8	.0	.0	.0	6.3	.0	4.9	29.2	4.2	.0	.0	38.2
5-6	.0	.0	.0	1.4	.0	.0	1.4	.0	4.2	7.6	.0	.0	.0	11.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	20.7	41.3	4.2	.0	.0	72.2
TOT PCT	.0	10.8	4.2	1.4	.0	.0	16.3	.0	.0	.0	.0	.0	.0	.0

PERIOD: (OVER-ALL) 1963-1969

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	2.8	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	1.4	.0
TOT PCT	.0	2.8	3.1	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.4	5.6	.0	.0	.0	.0	6.9	
1-2	.0	23.6	6.9	.0	.0	.0	30.6	
3-4	.0	11.1	31.9	4.2	.0	.0	47.2	
5-6	.0	4.2	9.7	1.4	.0	.0	15.3	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	44.4	48.6	5.6	.0	.0	100.0	72

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.8	23.9	30.7	8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	61	3
6-7	.0	1.1	10.2	5.7	2.3	1.1	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	5
8-9	.0	.0	1.1	1.1	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
13-14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
15-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
TOTAL	9	22	37	13	2	3	2	0	0	0	0	0	0	0	0	0	0	0	0	100.0	
PCT	10.2	25.0	42.0	14.8	2.3	3.4	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		

SEPTEMBER

PERIOD: (PRIMARY) 189A-1969
(OVER-ALL) 1882-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WE
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	.0	3.3	.0	.0	.0	.0	.0	3.3	.0	.0	4.9	.0	.0	.0	91.4
NE	.0	2.7	.0	.0	.0	.0	.0	2.7	.0	.0	9.0	.0	.0	.0	88.2
E	.0	2.4	.0	.0	.0	.0	.0	2.4	.5	.1	6.4	.0	.8	.0	89.7
SE	.3	2.9	.3	.0	.0	.0	.0	3.5	.3	.1	6.7	.0	1.0	.0	88.5
S	.0	4.3	.0	.0	.0	.0	.0	4.3	.0	.0	3.4	.0	3.8	.0	88.5
SW	.0	13.3	.0	.0	.0	.0	.0	13.3	.0	.0	.0	.0	.0	.0	86.7
W	66.7	.0	.0	.0	.0	.0	.0	66.7	.0	.0	.0	.0	.0	.0	33.3
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.2	2.8	.2	.0	.0	.0	.0	3.2	.3	.1	6.4	.0	1.0	.0	89.0
TOT OBS:	1231														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WE
	RAIN	RAIN SHHR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WU PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	.0	2.6	.0	.0	.0	.0	.0	2.6	.9	.0	9.2	.0	1.3	.0	86.0
06009	.5	1.4	.2	.0	.0	.0	.0	2.1	.2	.2	7.1	.0	1.7	.0	88.7
12015	.0	4.0	.4	.0	.0	.0	.0	4.4	.0	.0	3.5	.0	.4	.0	91.6
18021	.2	3.5	.0	.0	.0	.0	.0	3.7	.2	.0	6.2	.0	.2	.0	89.6
TOT PCT	.2	2.7	.2	.0	.0	.0	.0	3.1	.3	.1	6.5	.0	.9	.0	89.0
TOT OBS:	1284														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.1	1.4	.1	.0	.0	.0		2.6	4.3		.0	3.5	3.3	2.6	.0	3.0	2.4	1.3
NE	1.2	3.2	.2	.0	.0	.0		4.6	5.4		.0	3.9	7.1	7.1	1.0	3.7	4.2	2.2
E	4.3	17.5	7.9	1.1	.0	.0		30.8	9.1		13.9	29.9	32.3	33.8	19.2	29.5	31.9	30.3
SE	6.6	29.4	16.9	2.4	.0	.0		55.3	10.0		73.1	55.4	52.1	51.5	73.1	57.1	55.0	56.8
S	.9	3.0	.9	.0	.0	.0		4.8	7.7		9.3	6.6	4.4	3.5	6.7	4.1	3.2	6.3
SW	.1	.3	.0	.1	.0	.0		.5	7.2		3.7	.0	.0	.0	.0	.9	.4	1.1
W	.0	.0	.1	.0	.0	.0		.1	11.6		.0	.0	.4	.0	.0	.0	.0	.2
NW	.2	.2	.0	.0	.0	.0		.4	3.7		.0	.0	.4	.6	.0	.4	.7	.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.9	.0	.0	.0	.0	.0		.9	.0		.0	.8	.0	.4	.0	1.3	2.2	1.3
TOT OBS	226	815	386	53	0	0	1480		9.1		27	246	247	246	26	232	227	229
TOT PCT	15.3	55.1	26.1	3.6	.0	.0	100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	2.3	.3	.0	.0	.0	2.6	4.3	3.1	3.0	2.7	1.9	
NE	3.5	1.1	.0	.0	.0	4.6	5.4	3.5	7.1	3.4	3.2	
E	12.3	14.4	3.8	.3	.0	30.8	9.1	28.3	33.1	28.5	31.1	
SE	17.4	27.6	9.4	.8	.0	55.3	10.0	57.1	51.8	58.7	55.9	
S	2.0	2.5	.3	.0	.0	4.8	7.7	6.9	3.9	4.4	4.8	
SW	.4	.1	.1	.0	.0	.5	7.2	.4	.2	.8	.8	
W	.0	.1	.0	.0	.0	.1	11.6	.0	.2	.0	.1	
NW	.4	.0	.0	.0	.0	.4	3.7	.0	.5	.4	.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.9	.0	.0	.0	.0	.9	.0	.7	.2	1.2	1.8	
TOT OBS	581	681	201	17	0	1480	9.1	273	493	258	456	
TOT PCT	39.3	46.0	13.6	1.1	.0	100.0		100.0	100.0	100.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1896-1969
(OVER-ALL) 1882-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOURL	CALM	1-3	4-10	WIND SPEED (KNOTS)				4+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	.7	15.4	53.1	27.5	3.3	.0	.0	.0	9.2	100.0	273
00009	.2	14.0	55.2	27.6	3.0	.0	.0	.0	9.2	100.0	493
12015	1.2	12.4	51.6	30.6	4.3	.0	.0	.0	9.6	100.0	238
18021	1.8	15.1	58.1	21.1	3.9	.0	.0	.0	8.8	100.0	456
TOT	14	212	815	386	53	0	0	0	9.1		1480
PCT	.9	14.3	55.1	26.1	3.6	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	.8	.0	.0	.0		2.0
NE	.8	.0	.0	.0		1.0
E	12.4	2.8	6.2	1.8		3.1
SE	30.2	18.3	10.6	4.4		3.0
S	3.4	4.6	.8	.0		2.5
SW	.0	.0	.0	1.0		8.0
W	.0	.0	.0	1.0		8.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	1.0	.0	.0	.0		.0
TOT OBS	47	25	17	8	97	3.0
TOT PCT	48.5	25.8	17.5	8.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	100	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
.0	.0	.0	1.5	2.3	.0	.0	.0	.0	.0	19.3	
.0	1.0	.0	.5	5.9	1.0	.3	.0	.0	.0	54.6	
.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	8.0	
.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
.0	1	0	2	10	1	1	0	0	0	82	97
.0	1.0	.0	2.1	10.3	1.0	1.0	.0	.0	.0	84.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM)				= OR >1/4	= OR >50YD	= OR >0
				= OR >1	= OR >1/2	= OR >1/4	= OR >50YD			
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
= OR >4000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >2000	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >1000	8.2	11.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2	12.2
= OR >800	10.2	13.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
= OR >300	10.2	13.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3
= OR >150	10.2	13.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
= OR >0	10.2	13.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
TOTAL	10	13	15	15	15	15	15	15	15	15

TOTAL NUMBER OF OBS: 98

PCT FREQ NH <5/8: 84.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
10.6	29.8	21.2	15.4	8.7	2.9	3.8	4.8	2.9	.0	104

SEPTEMBER

PERIOD: (PRIMARY) 1896-1969
(OVER-ALL) 1882-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.1	.4	2.1	4.6	.2	.0	.0	.0	.0	.0	7.4	
	TOT %	.1	.4	2.1	4.8	.2	.0	.0	.0	.0	.0	7.6	
1<2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	.4	
2<5	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.1	.1	.0	.1	.0	.0	.0	.0	.2	
5<10	PCP	.1	.1	.6	1.6	.2	.0	.0	.0	.0	.0	2.6	
	NO PCP	2.2	3.7	24.0	41.1	2.9	.5	*	.4	.0	.2	73.1	
	TOT %	2.3	3.8	24.6	42.6	3.1	.5	*	.4	.0	.2	77.7	
10+	PCP	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.3	
	NO PCP	.1	.3	3.9	7.9	1.5	.0	.0	.0	.0	.2	13.8	
	TOT %	.1	.3	4.0	8.0	1.5	.0	.1	.0	.0	.2	14.1	
TOT OBS													1231
TOT PCT		2.5	4.5	30.9	55.8	4.8	.6	.1	.4	.0	.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	*	.1	.4	.6	.0	.0	.0	.0	.0	.0	1.1	
	4-10	.1	.3	1.2	2.3	.1	.0	.0	.0	.0	.0	4.0	
	11-21	.0	.0	.3	1.4	.1	.0	.0	.0	.0	.0	1.7	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.4	1.9	4.3	.1	.0	.0	.0	.0	.0	6.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.2	.1	.0	.1	.0	.0	.0	.0	.4	
5<10	0-3	.7	.9	3.9	5.3	.5	.1	.0	.2	.0	.2	11.9	
	4-10	1.3	2.5	13.3	22.5	2.1	.3	*	.2	.0	.0	42.2	
	11-21	.1	.1	4.8	9.4	.3	.0	.0	.0	.0	.0	14.7	
	22+	.0	.0	.8	1.9	.0	.0	.0	.0	.0	.0	2.7	
	TOT %	2.1	3.5	22.8	39.1	2.9	.5	*	.4	.0	.2	71.6	
10+	0-3	.2	.1	.3	.8	.4	.0	.0	.0	.0	.6	2.4	
	4-10	.2	.4	3.2	4.8	.9	.0	.0	.1	.0	.0	9.7	
	11-21	.0	.1	2.6	5.1	.5	.0	.1	.0	.0	.0	8.3	
	22+	.0	.0	*	.5	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.4	.6	6.2	11.1	1.8	.0	.1	.1	.0	.6	20.9	
TOT OBS													1357
TOT PCT		2.6	4.5	31.1	55.0	4.8	.6	.1	.4	.0	.8	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1896-1969
(OVER-ALL) 1862-1969

AREA 0001 PRINCESS CHARLOTTE HAY
14.15 144.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL OBS	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	3.6	.0	3.6	10.7	.0	3.6	.0	.0	.0	21.4	78.6	28
06009	.0	.0	.0	.0	7.1	.0	.0	.0	.0	.0	7.1	92.9	28
12015	.0	.0	.0	.0	11.5	.0	.0	.0	.0	.0	11.5	88.5	26
18021	.0	.0	.0	4.5	9.1	4.5	.0	.0	.0	.0	18.2	81.8	22
TOT	0	1	0	2	10	1	1	0	0	0	15	89	104
PCT	.0	1.0	.0	1.9	9.6	1.0	1.0	.0	.0	.0	14.4	85.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	9.4	.4	.8	64.6	24.8	254
06009	.0	7.8	.2	.4	72.8	18.8	464
12015	.0	4.1	.8	.4	71.0	23.7	245
18021	.0	6.3	.2	.0	76.5	17.0	447
TOT	0	98	5	5	1018	284	1410
PCT	.0	7.0	.4	.4	72.2	20.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	3.6	10.7	10.7	78.6	28
06009	.0	.0	.0	7.7	92.3	26
12015	.0	.0	.0	11.5	88.5	26
18021	.0	.0	5.6	16.7	77.8	18
TOT	0	1	4	11	83	98
PCT	.0	1.0	4.1	11.2	84.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.4	.0	.0	.0	.0	.0	1	.4
80/84	.0	.0	.0	.0	.8	5.8	1.2	.8	21	8.7
79/79	.0	.0	.4	.8	2.5	27.0	22.4	14.1	162	67.2
70/74	.0	.0	.0	.0	3.7	6.6	7.1	6.2	57	23.7
TOTAL	0	0	2	2	17	95	74	51	241	100.0
PCT	.0	.0	.8	.8	7.1	39.4	30.7	21.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
.0	.4	3.9	3.9	.4	.0	.0	.0	.0	.0
2.0	2.4	16.5	39.5	5.6	.4	.4	.0	.0	.4
.0	.0	4.1	14.5	3.3	.2	.2	.0	.0	1.2
2.0	2.8	24.6	58.4	9.3	.6	.6	.0	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	92	84	82	78	74	72	70	78.2	278
06009	87	83	81	77	74	72	66	77.3	503
12015	81	79	78	76	73	71	70	75.6	263
18021	85	81	79	76	73	71	70	75.7	484
TOT	92	83	81	77	73	71	66	76.7	1528

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	3.8	9.4	39.6	26.4	20.8	79	53		
06009	.0	2.5	11.1	43.2	28.4	14.8	80	81		
12015	.0	.0	4.1	51.0	32.7	12.2	80	49		
18021	.0	.0	2.9	27.5	36.2	33.3	84	69		
TOT	0	4	18	100	78	52	81	252		

SEPTEMBER

PERIOD: (PRIMARY) 1896-1969
(OVER-ALL) 1887-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.3F

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	.1	.0	1	.0	.1
7/8	.0	.0	.1	.3	1.0	.0	15	.1	1.2
6	.0	.0	.2	.8	1.0	.0	22	.4	1.5
5	.0	.0	.4	1.5	1.6	.1	41	.3	3.2
4	.0	.0	1.1	7.9	.8	.0	112	.9	8.9
3	.0	.0	2.7	10.1	1.5	.1	164	1.3	13.0
2	.0	.1	7.2	10.8	.5	.1	214	1.0	17.7
1	.0	.1	12.2	5.9	.2	.0	210	.7	17.7
0	.0	.1	11.1	4.4	.2	.0	180	.7	15.0
-1	.0	.3	5.0	1.5	.0	.0	78	.4	6.4
-2	.0	.2	4.8	.5	.2	.0	65	.1	5.6
-3	.0	.4	.9	.1	.0	.0	16	.0	1.4
-4	.0	.4	.5	.1	.0	.0	12	.0	1.0
-5	.0	.1	.2	.0	.0	.0	3	.0	.3
-6	.0	.2	.3	.0	.0	.0	6	.0	.5
-7/-8	.1	.1	.0	.1	.0	.0	3	.0	.3
-9/-10	.0	.0	.0	.2	.0	.0	2	.0	.2
TOTAL	1		534		79		1144	69	1075
PCT	.1	2.0	46.7	44.1	6.9	.2	100.0	6.0	94.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4
3-4	.0	1.1	.0	.0	.0	.0	1.1	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	.0	.0	.0	.0	1.1	.0	.7	.0	.0	.0	.0	.7

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	4.8
1-2	.0	9.6	1.5	.0	.0	.0	11.0	.0	12.9	4.4	.0	.0	.0	17.3
3-4	.0	4.4	8.1	.0	.0	.0	12.5	1.5	1.8	24.6	1.5	.0	.0	29.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4	1.5	.0	.0	8.8
7	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	1.5	1.5	.0	.0	2.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	14.0	11.0	.0	.0	.0	25.0	1.5	19.5	37.9	4.4	.0	.0	63.2

PERIOD: (OVER-ALL) 1963-1969

SEPTEMBER

AREA 0001 PRINCESS CHARLOTTE BAY
14.1S 144.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.1	.0	.0	.0	.0		1.1	.0	.0	.0	.0	.0	.0		.0
1-2	.0	2.2	.0	.0	.0	.0		2.2	.0	.0	.0	.0	.0	.0		.0
3-4	.0	1.1	2.6	.0	.0	.0		3.7	.0	.0	.0	.0	.0	.0		.0
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	1.5	.0	.0		1.5
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	4.4	2.6	.0	.0	.0		7.0	.0	.0	.0	1.5	.0	.0		1.5

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
1-2	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
3-4	.0	.0	1.5	.0	.0	.0		1.5	.0	.0	.0	.0	.0	.0		.0	
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	.0	1.5	.0	.0	.0		1.5	.0	.0	.0	.0	.0	.0		.0	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.0	5.8	.0	.0	.0	.0	5.8	
1-2	1.4	24.6	5.8	.0	.0	.0	31.9	
3-4	1.4	8.7	36.2	1.4	.0	.0	47.8	
5-6	.0	.0	7.2	1.4	.0	.0	8.7	
7	.0	.0	2.9	2.9	.0	.0	5.8	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.9	39.1	52.2	5.8	.0	.0	100.0	69

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
4-6	6.4	30.9	35.1	5.3	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	77	3
6-7	.0	2.1	7.4	2.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	4
8-9	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
10-11	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
12-13	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2
TOTAL	7	31	42	9	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	94	3
PCT	7.4	33.0	44.7	9.6	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1888-1969AREA 0001 PRINCESS CHARLOTTE DAY
14.15 144.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	5.6	.0	89.6
NE	.8	.4	.8	.0	.0	.0	.0	1.9	.8	3.4	5.3	.0	1.3	.0	87.3
E	.5	2.3	.2	.0	.0	.0	.0	3.1	.0	1.1	4.6	.0	1.2	.0	90.3
SE	1.0	4.3	.3	.0	.0	.0	.0	5.5	.0	1.1	9.3	.0	.8	.0	83.9
S	1.3	4.0	.0	.0	.0	.0	.0	5.4	.0	1.3	16.1	.0	.0	.0	78.5
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.8	.0	.0	.0	88.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.8	3.1	.3	.0	.0	.0	.0	4.2	.1	1.3	7.4	.0	1.1	.0	86.5
TOT OBS:	1397														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.0	3.2	.4	.0	.0	.0	.0	3.6	.0	.0	7.2	.0	.8	.0	88.4
06009	.8	2.1	.2	.0	.0	.0	.0	3.1	.2	1.0	9.4	.0	2.1	.0	84.5
12015	.8	2.4	.4	.0	.0	.0	.0	3.6	.0	2.4	4.8	.0	.8	.0	88.7
18021	1.1	4.0	.2	.0	.0	.0	.0	5.3	.0	1.5	6.7	.0	.2	.0	87.2
TOT PCT	.8	3.0	.3	.0	.0	.0	.0	4.0	.1	1.2	7.4	.0	1.0	.0	86.8
TOT OBS:	1452														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.0	1.3	.1	.0	.0	.0		2.3	4.1	.0	3.1	2.6	3.0	.0	2.1	2.1	1.1	
NE	2.6	5.8	.7	.1	.0	.0		9.1	5.5	5.3	9.9	13.5	10.0	6.6	9.7	7.4	4.5	
E	3.0	19.8	9.8	1.4	.0	.0		34.0	9.8	36.8	29.0	33.7	34.7	47.4	36.7	34.7	34.0	
SE	2.5	28.5	16.5	2.1	.1	.0		49.7	10.9	29.5	51.7	46.2	50.0	36.8	48.3	51.5	52.2	
S	.3	2.0	.6	.0	.0	.0		3.0	7.8	13.2	3.7	3.4	1.3	9.2	1.5	1.9	4.6	
SW	.1	.2	.0	.0	.0	.0		.3	3.8	.0	.4	.2	.0	.0	.0	.2	1.2	
W	.1	.1	.0	.0	.0	.0		.2	4.0	.0	.4	.0	.0	.0	.4	.2	.3	
NW	.4	.3	.0	.0	.0	.0		.7	3.8	5.3	.7	.4	.2	.0	.6	1.3	.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.7							.7	.0	.0	1.1	.0	.8	.0	.7	.8	1.1	
TOT OBS	178	961	459	59	1	0	1658		9.7	19	272	283	265	19	267	264	269	
TOT PCT	10.7	58.0	27.7	3.6	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+	00				06	12	18	21	
N	2.1	.2	.0	.0	.0		2.3	4.1	2.9	2.8	1.9	1.6		
NE	7.0	1.9	.2	.0	.0		9.1	5.5	9.6	11.8	9.5	5.9		
E	11.0	17.1	5.9	.1	.0		34.0	9.8	29.6	34.2	37.4	34.3		
SE	10.2	28.4	10.5	.5	.1		49.7	10.9	50.9	48.0	47.6	51.9		
S	1.4	1.4	.1	.0	.0		3.0	7.8	4.3	2.4	2.0	3.3		
SW	.3	.0	.0	.0	.0		.3	3.8	.3	.1	.0	.7		
W	.2	.0	.0	.0	.0		.2	4.0	.3	.0	.3	.2		
NW	.6	.1	.0	.0	.0		.7	3.8	1.0	.3	.5	1.1		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	.7						.7	.0	1.0	.4	.7	.9		
TOT OBS	557	815	276	9	1	1658		9.7	291	548	286	533		
TOT PCT	33.6	49.2	16.6	.5	.1		100.0		100.0	100.0	100.0	100.0		

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PERIOD: (PRIMARY) 1897-1969
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOURL	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
0000	1.0	12.0	57.7	27.1	2.1	.0	.0	9.2	100.0	291
0600	.4	7.8	59.9	28.5	3.5	.0	.0	9.8	100.0	548
1200	.7	10.1	53.5	30.4	5.2	.0	.0	10.1	100.0	286
1800	.9	11.1	58.5	25.7	3.6	.2	.0	9.5	100.0	533
TOT	12	166	961	459	59	1	0	9.7		1658
PCT	.7	10.0	58.0	27.7	3.6	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	.0	.0	1.0		4.0
NE	1.7	1.4	4.7	1.7		4.9
E	10.5	17.2	10.8	3.4		3.7
SE	13.9	16.9	7.4	2.0		3.4
S	1.0	1.0	1.4	1.4		5.1
SW	.0	.0	.0	.0		.0
W	.0	.0	.0	.0		.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	1.4	.0		6.0
TOT OBS	21	27	19	7	74	3.8
TOT PCT	28.4	36.5	25.7	9.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	
.0	.0	.0	.0	2.7	.3	.0	.0	.0	.0	8.4	
.0	.0	.0	1.4	4.7	2.0	3.7	.0	.0	.0	30.1	
.0	.0	.0	.0	7.4	1.7	.3	.0	.0	.0	30.7	
.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	2.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
.0	.0	.0	1	13	3	3	.0	.0	.0	54	74
.0	.0	.0	1.4	17.6	4.1	4.1	.0	.0	.0	73.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NH) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >4500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >2500	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
= OR >2000	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
= OR >1500	21.6	25.7	25.7	25.7	25.7	25.7	25.7	25.7
= OR >1000	23.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
= OR >600	23.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
= OR >300	23.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
= OR >150	23.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
= OR >0	23.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
TOTAL	17	20	20	20	20	20	20	20

TOTAL NUMBER OF OBS: 74

PCT FREQ NH <5/8: 73.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
9.0	20.5	19.2	12.8	11.5	10.3	9.0	3.8	3.8	78

PERIOD: (PRIMARY) 1897-1969
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.5	1.9	5.2	.4	.0	.0	.1	.0	.0	8.2	8.2
	TOT %	.1	.5	1.9	5.2	.4	.0	.0	.1	.0	.0	.0	.0
1<2	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	.1
	NO PCP	.0	*	.2	.2	.0	.0	.0	.0	.0	.0	.4	.4
	TOT %	.0	*	.2	.3	.0	.0	.0	.0	.0	.0	.5	.5
2<5	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	NO PCP	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.4	.4
	TOT %	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.5	.5
5<10	PCP	.0	.1	1.0	2.8	.1	.0	.0	.0	.0	.0	4.0	4.0
	NO PCP	2.0	8.0	27.0	37.3	1.7	.3	.2	.5	.0	.1	77.1	77.1
	TOT %	2.0	8.1	28.0	40.1	1.9	.3	.2	.5	.0	.1	81.1	81.1
10+	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.6	3.7	4.7	.4	.1	.1	.1	.0	.0	9.7	9.7
	TOT %	.1	.6	3.7	4.7	.4	.1	.1	.1	.0	.0	9.7	9.7
TOT OBS													
TOT PCT													
		2.2	9.4	34.0	50.4	2.7	.3	.2	.6	.0	.1	100.0	1394

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
1/2<1	0-3	.1	.1	.2	.3	.0	.0	.0	.0	.0	.0	.7	.7
	4-10	*	.3	.8	3.0	.4	.0	.0	.1	.0	.0	4.6	4.6
	11-21	.0	.1	.7	1.4	.0	.0	.0	.0	.0	.0	2.2	2.2
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.1	.5	1.7	4.7	.4	.0	.0	.1	.0	.0	7.5	7.5
1<2	0-3	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.3	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	*	.2	.2	.0	.0	.0	.0	.0	.0	.4	.4
2<5	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	.3
	11-21	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.1	.2	.2	.0	.0	.0	.0	.0	.0	.5	.5
5<10	0-3	.8	2.1	2.1	2.1	.3	.1	.1	.2	.0	.2	8.0	8.0
	4-10	1.0	4.7	16.0	22.4	1.2	.2	.1	.2	.0	.0	45.9	45.9
	11-21	.1	.6	6.2	9.9	.2	.0	.0	.0	.0	.0	16.9	16.9
	22+	.0	.1	1.3	2.1	*	.0	.0	.0	.0	.0	3.4	3.4
	TOT %	1.8	7.4	25.7	36.6	1.8	.2	.2	.5	.0	.2	74.3	74.3
10+	0-3	.1	.3	.5	.2	.1	.1	.0	.1	.0	.2	1.6	1.6
	4-10	.1	.8	3.7	2.7	.4	*	*	.1	.0	.0	9.0	9.0
	11-21	.0	.1	2.3	4.0	.2	.0	.0	.0	.0	.0	6.6	6.6
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.2	1.2	6.6	8.0	.7	.1	*	.1	.0	.2	17.2	17.2
TOT OBS													
TOT PCT													
		2.2	9.3	34.4	49.7	2.8	.3	.2	.7	.0	.4	100.0	1538

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	22.2	5.6	.0	.0	.0	.0	27.8	72.2	18
06009	.0	.0	.0	.0	7.7	3.4	3.8	.0	.0	.0	15.4	84.6	26
12015	.0	.0	.0	.0	18.8	.0	.0	.0	.0	.0	18.8	81.3	16
18021	.0	.0	.0	5.9	23.5	5.9	11.8	.0	.0	.0	47.1	52.9	17
TOT	0	0	0	1	13	3	3	0	0	0	20	57	77
PCT	.0	.0	.0	1.3	16.9	3.9	3.5	.0	.0	.0	26.0	74.0	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	7.1	.4	.4	69.6	22.5	280
06009	.0	9.0	.8	.6	75.4	14.2	521
12015	.0	5.2	.4	.4	77.0	17.1	269
18021	.2	7.3	.2	.6	76.1	15.7	523
TOT	1	119	7	8	1193	265	1563
PCT	.1	7.5	.4	.5	74.9	16.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	31.3	68.8	16
06009	.0	.0	4.0	16.0	80.0	25
12015	.0	.0	.0	18.8	81.3	16
18021	.0	.0	5.9	41.2	52.9	17
TOT	0	0	2	19	53	74
PCT	.0	.0	2.7	25.7	71.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.4	.0	.9	.9	.4	6	2.6
80/84	.0	.0	.0	1.3	6.4	8.6	4.3	2.6	54	23.2
75/79	.0	.0	.0	.0	7.7	30.0	23.2	10.3	166	71.2
70/74	.0	.0	.0	.0	.4	.0	1.3	1.3	7	3.0
TOTAL	0	0	0	4	34	92	69	34	233	100.0
PCT	.0	.0	.0	1.7	14.6	39.5	29.6	14.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.0	1.3	1.3	.0	.0	.0	.0	.0	.0
80/84	1.3	1.8	7.2	11.1	1.4	.1	.3	.0	.0	.0
75/79	4.0	5.8	25.1	34.0	.6	.0	.0	.9	.0	.9
70/74	.0	.0	1.1	1.2	.3	.0	.2	.2	.0	.0
TOTAL	5.3	7.6	34.7	47.5	2.4	.1	.5	1.1	.0	.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	92	86	84	80	77	75	74	80.4	299
06009	89	85	83	80	77	75	75	79.7	559
12015	82	81	80	78	75	73	72	77.8	289
18021	86	83	81	78	75	73	70	78.1	563
TOT	92	85	83	79	76	74	70	79.0	1710

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.2	27.1	41.7	20.8	6.3	74	48		
06009	.0	1.3	14.1	43.6	26.9	14.1	78	78		
12015	.0	2.5	5.0	37.5	35.0	20.0	81	40		
18021	.0	.0	11.0	32.9	35.6	20.5	81	73		
TOT	0	4	34	93	71	37	79	239		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.2	.0	.1	4	.0	.3
7/8	.0	.0	.1	.7	.1	.0	11	.0	.9
6	.0	.0	.1	.6	.2	.0	11	.2	.7
5	.0	.0	.6	1.7	.5	.0	30	.0	2.4
4	.0	.0	2.2	2.4	.5	.0	76	.2	5.9
3	.0	.3	3.2	5.1	.2	.0	137	.8	10.1
2	.0	1.6	12.9	6.1	.2	.0	262	1.0	19.8
1	.0	1.8	17.7	4.1	.0	.0	298	2.5	21.1
0	.0	2.8	17.6	1.1	.0	.0	271	2.7	18.8
-1	.1	2.1	5.2	.1	.0	.0	94	.8	6.7
-2	.0	1.0	1.6	.0	.0	.0	33	.1	2.5
-3	.1	1.0	.4	.0	.0	.0	18	.0	1.4
-4	.0	.3	.2	.0	.0	.0	6	.0	.5
-5	.0	.2	.0	.0	.0	.0	2	.0	.2
-6	.0	.2	.0	.0	.0	.0	3	.0	.2
-7/-8	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	3	143	814	278	18	2	1258	104	1154
PCT	.2	11.4	64.7	27.1	1.4	.2	100.0	8.3	91.7

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PLT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	1.6	3.2	.0	.0	.0	.0	4.8
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	1.6
3-4	.0	1.2	.0	.0	.0	.0	1.2	.0	.4	.4	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	1.6	5.2	.8	.0	.0	.0	7.7
TOT PCT	.0	1.2	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.6	.0	.0	.0	.0	1.6	.0	4.8	.0	.0	.0	.0	4.8
1-2	.0	12.5	1.6	.0	.0	.0	14.1	.0	10.1	3.2	.0	.0	.0	13.3
3-4	.0	2.8	12.1	.0	.0	.0	14.9	.0	.8	5.2	1.6	.0	.0	7.7
5-6	.0	.0	5.6	.0	.0	.0	5.6	.0	.0	13.3	.0	.0	.0	13.3
7	.0	.0	3.2	.0	.0	.0	3.2	.0	.0	6.5	.0	.0	.0	6.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	13.7	28.2	1.6	.0	.0	45.6
TOT PCT	.0	16.9	27.6	.0	.0	.0	39.5	.0	.0	.0	.0	.0	.0	.0

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.2	1.6	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.6	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.2	3.2	.0	.0	.0	4.4	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	1.6	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	1.6	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.6	9.7	.0	.0	.0	.0	11.3	
1-2	.0	25.8	4.8	.0	.0	.0	30.6	
3-4	.0	6.5	19.4	1.6	.0	.0	27.4	
5-6	.0	.0	19.4	.0	.0	.0	19.4	
7	.0	.0	11.3	.0	.0	.0	11.3	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.6	41.9	54.8	1.6	.0	.0	100.0	62

PERIOD: (OVER-ALL) 1950-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	2-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	11.3	19.7	22.5	12.7	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	3
6-7	.0	.0	5.6	2.8	8.5	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	6
8-9	.0	.0	.0	2.8	1.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	0
TOTAL	9	14	27	13	11	1	1	0	0	0	0	0	0	0	0	0	0	0	0	71	4
PCT	12.7	19.7	31.0	18.3	15.5	1.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1896-1969
(OVER-ALL) 1884-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.05 144.3F

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WFA
N	3.8	1.9	.0	.0	.0	.0	.0	5.7	.0	7.7	8.6	.0	1.4	.0	80.4
NE	1.7	.6	.0	.0	.0	.0	.3	2.6	.0	5.8	9.7	.0	2.0	.0	81.6
E	1.5	3.4	.1	.0	.0	.0	.4	5.5	.0	1.0	3.2	.0	1.9	.0	88.9
SE	7.8	9.4	.1	.0	.0	.0	.4	12.7	.0	1.3	6.9	.0	1.4	.0	78.2
S	7.2	7.2	.0	.0	.0	.0	.0	14.4	.0	6.0	6.0	.0	2.4	.0	76.0
SW	14.3	.0	.0	.0	.0	.0	.0	14.3	.0	.0	14.3	.0	.0	.0	71.4
W	26.7	.0	.0	.0	.0	.0	.0	26.7	.0	33.3	13.3	.0	.0	.0	53.3
NW	10.7	2.7	.0	.0	.0	.0	.0	13.4	.0	9.4	18.8	.0	.7	.0	60.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	2.8	5.6	.1	.0	.0	.0	.4	8.8	.0	2.6	6.4	.0	1.6	.0	81.7
TOT OBS:	1361														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WFA
00003	1.2	3.9	.0	.0	.0	.0	.0	5.0	.0	.4	6.6	.0	1.5	.0	86.9
06009	3.4	4.5	.2	.0	.0	.0	1.1	9.1	.0	4.0	6.2	.0	2.3	.0	79.4
12015	4.9	6.6	.0	.0	.0	.0	.0	11.5	.0	4.5	5.3	.0	.4	.0	80.2
18021	2.4	6.8	.0	.0	.0	.0	.0	9.2	.0	1.8	7.7	.0	1.3	.0	81.4
TOT PCT	2.9	5.5	.1	.0	.0	.0	.3	8.8	.0	2.7	6.6	.0	1.5	.0	81.5
TOT OBS:	1490														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	1.2	2.9	.2	.0	.0	.0	4.3	5.5	8.6	2.9	5.1	4.6	11.9	5.6	3.6	2.5			
NE	4.8	6.4	.6	.0	.0	.0	11.8	4.9	3.9	9.6	17.3	15.7	4.8	11.1	10.3	7.9			
E	3.2	19.6	9.6	1.1	.0	.0	33.4	9.6	49.2	35.6	31.6	30.2	22.6	34.6	35.0	32.5			
SE	5.0	21.6	15.2	1.3	.0	.0	43.0	10.3	24.2	43.3	41.0	42.9	44.0	42.6	45.5	44.5			
S	.6	1.9	.6	.0	.0	.0	3.2	7.9	13.3	3.6	2.6	2.2	14.3	1.2	1.2	6.2			
SW	.2	.3	.0	.0	.0	.0	.5	4.8	.0	.5	.0	.2	.0	.2	.6	1.6			
W	.4	.1	.0	.0	.0	.0	.5	2.6	.0	.4	.0	1.0	.0	.4	.6	1.6			
NW	1.2	1.6	.0	.0	.0	.0	2.8	4.8	.0	2.9	1.6	3.0	2.4	3.9	2.4	3.5			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	.6						.6	.0	.0	1.1	.0	.4	.0	.4	.8	.8			
TOT OBS	277	886	427	39	0	0	1629		8.9	32	275	284	252	21	257	250			
TOT PCT	17.0	54.4	26.2	2.4	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0			

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	12	18
N	3.0	1.2	.0	.0	.0		4.3	5.5	3.5	4.9	6.1	3.1
NE	9.1	2.5	.1	.0	.0		11.8	4.9	9.0	16.5	10.6	9.1
E	10.9	17.7	4.8	.1	.0		33.4	9.6	37.1	30.9	33.7	33.7
SE	11.0	23.8	8.1	.1	.0		43.0	10.3	41.3	42.3	42.7	43.0
S	1.5	1.4	.3	.0	.0		3.2	7.9	4.6	2.4	2.2	3.7
SW	.4	.1	.0	.0	.0		.5	4.8	.5	.1	.2	1.1
W	.5	.0	.0	.0	.0		.5	2.6	.3	.5	.4	.6
NW	2.1	.7	.0	.0	.0		2.8	4.8	2.7	2.2	3.8	3.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	.6	.0	.0	.0	.0		.6	.0	1.0	.2	.4	.8
TOT OBS	636	773	216	4	0	1629		8.9	307	536	278	508
TOT PCT	39.0	47.5	13.3	.2	.0		100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1896-1969
(OVER-ALL) 1884-1969AREA 0001 PRINCESS CHARLOTTE BAY
14.05 144.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	1.0	18.9	55.7	23.5	1.0	.0	.0	.0	8.1	100.0	307
06009	.2	15.7	54.5	26.9	2.8	.0	.0	.0	9.1	100.0	536
12015	.4	15.8	48.6	30.9	4.3	.0	.0	.0	9.6	100.0	278
18021	.8	16.1	56.7	24.6	1.8	.0	.0	.0	8.6	100.0	508
TOT	9	268	886	427	39	.0	.0	.0	8.9		1629
PCT	.6	16.5	54.4	26.2	2.4	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.7	2.2	3.0	.0		3.4
NE	4.6	1.3	1.1	.0		2.6
E	19.1	13.4	5.6	4.3		3.0
SE	12.9	12.9	4.6	1.1		2.8
S	1.1	4.6	3.8	.0		3.7
SW	.0	.0	.0	.0		.0
W	.0	.0	.0	.0		.0
NW	.5	.0	.3	.0		3.0
VAR	.0	.0	.0	.0		.0
CALM	1.1	.0	.0	.0		1.0
TOT OBS	39	32	17	9	93	3.0
TOT PCT	41.9	34.4	18.3	5.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	.0	1.1	.8	.0	.0	.0	5.9	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0
E	.0	.0	.0	1.1	1.9	.0	.0	.0	1.9	.0	37.6	
SE	.0	.0	.0	.3	.5	.0	1.1	.0	.3	.0	29.3	
S	.0	.0	.0	.8	.8	.0	1.1	.0	.0	.0	6.7	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
TOT OBS	0	0	0	2	3	1	3	0	2	0	82	93
TOT PCT	.0	.0	.0	2.2	3.2	1.1	3.2	.0	2.2	.0	88.2	100.0

TABLE 7

CUMULATIVE PCT FRQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >30YD	= OR >0
= OR >6500	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >5000	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >3500	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
= OR >2000	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
= OR >1000	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2
= OR >800	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
= OR >600	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
= OR >300	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
= OR >150	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
= OR >0	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
TOTAL	11	11	11	11	11	11	11	11

TOTAL NUMBER OF OBS: 98

PCT FREQ NH <5/8: 88.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	13.1	27.1	21.5	16.8	8.4	7.5	4.7	.9	.0	.0	107

NOVEMBER

PERIOD: (PRIMARY) 1896-1949
(OVER-ALL) 1884-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.05 144.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	*	.0	.4	.9	.2	.0	.0	.1	.0	.0	1.6	
	NO PCP	.2	1.1	1.4	3.9	.2	*	.1	.6	.0	.0	7.5	
	TOT %	.3	1.1	1.7	4.8	.4	*	.1	.7	.0	.0	9.1	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.4	.6	.1	.0	.0	.0	.0	.0	1.0	
	TOT %	.0	.0	.4	.6	.1	.0	.0	.0	.0	.0	1.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.1	.3	1.4	4.5	.3	*	.1	.3	.0	.0	7.1	
	NO PCP	2.7	10.7	25.2	29.1	1.7	.1	.3	1.7	.0	.3	71.9	
	TOT %	2.8	11.0	26.6	33.7	2.0	.1	.5	2.0	.0	.3	79.0	
10+	PCP	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.7	.8	4.7	3.7	.6	.1	.0	.1	.0	.1	10.7	
	TOT %	.8	.8	4.8	3.7	.6	.1	.0	.1	.0	.1	10.9	
TOT OBS													1361
TOT PCT		3.8	12.9	33.5	42.7	3.1	.3	.6	2.7	.0	.4	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1896-1969
(OVER-ALL) 1864-1969

AREA 0001 PRINCESS CHARLOTTE SAY
14.05 144.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	6.1	6.1	.0	3.0	.0	6.1	.0	21.2	78.8	33
06009	.0	.0	.0	.0	3.1	.0	.0	.0	.0	.0	3.1	96.9	32
12015	.0	.0	.0	.0	.0	5.0	5.0	.0	.0	.0	10.0	90.0	20
18021	.0	.0	.0	.0	.0	.0	5.3	.0	.0	.0	5.3	94.7	19
TOT	0	0	0	2	3	1	3	0	2	0	11	93	104
PCT	.0	.0	.0	1.9	2.9	1.0	2.9	.0	1.9	.0	10.6	89.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	7.9	.7	.0	65.2	26.2	290
06009	.0	9.1	1.4	.0	73.3	16.1	514
12015	.0	6.8	.4	.0	77.4	15.5	265
18021	.0	8.4	.8	.0	75.0	15.7	509
TOT	0	131	14	0	1153	280	1578
PCT	.0	8.3	.9	.0	73.1	17.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	6.3	15.6	78.1	32
06009	.0	.0	.0	3.3	96.7	30
12015	.0	.0	.0	10.5	89.5	19
18021	.0	.0	.0	5.9	94.1	17
TOT	0	0	2	9	87	98
PCT	.0	.0	2.0	9.2	88.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.4	.0	.0	.0	.0	1	.4
85/89	.0	.0	.0	.4	2.2	3.6	1.1	.0	20	7.2
80/84	.0	.0	.0	.4	7.2	26.6	21.9	1.4	160	57.6
75/79	.0	.0	.0	.4	.4	14.0	16.2	4.0	97	34.9
TOTAL	0	0	0	4	27	123	109	15	278	100.0
PCT	.0	.0	.0	1.4	9.7	44.2	39.2	5.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.3	.1	.0	.0	.0	.0	.0	.0
.4	.2	3.9	2.2	.2	.0	.4	.0	.0	.0
3.6	4.0	23.7	19.4	3.9	.0	.4	1.6	.0	1.1
1.2	3.6	13.2	15.6	.7	.0	.0	.3	.0	.4
5.1	7.7	41.0	37.3	4.8	.0	.7	1.9	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	92	89	86	82	79	77	76	82.4	314
06009	92	87	85	82	78	76	72	81.6	541
12015	86	84	83	80	77	75	75	79.8	285
18021	87	85	83	80	77	75	70	79.9	546
TOT	92	86	85	81	77	75	70	80.9	1686

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	21.9	39.1	39.1	.0	76	64
06009	.0	3.3	11.0	57.1	25.3	3.3	76	41
12015	.0	.0	.0	44.0	46.0	10.0	81	50
18021	.0	1.2	3.6	34.5	51.2	9.5	82	84
TOT	0	4	27	128	114	16	79	289

PERIOD: (PRIMARY) 1896-1969
(OVER-ALL) 1884-1969

NOVEMBER

ARFA 0001 PRINCESS CHARLOTTE BAY
14.05 144.3F

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TEMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WO FOG
9/10	.0	.1	.1	.0	.1	3	.1	.2
7/8	.0	.1	.2	.3	.1	7	.0	.6
6	.0	.0	.1	.6	.0	8	.0	.7
5	.0	.1	1.4	1.5	.1	36	.1	3.0
4	.0	.4	5.0	1.5	.1	83	.3	6.8
3	.0	1.8	9.6	1.1	.0	147	.4	12.1
2	.0	4.7	11.1	1.3	.0	200	.8	16.3
1	.0	9.6	9.8	.8	.0	237	1.4	18.9
0	.2	10.0	9.0	.2	.0	226	1.5	17.8
-1	.5	6.6	2.7	.0	.0	115	1.3	8.5
-2	.7	4.0	1.5	.0	.0	72	.8	5.5
-3	.6	.9	.4	.1	.0	23	.2	1.8
-4	.3	.3	.2	.0	.0	9	.0	.8
-5	.2	.2	.0	.0	.0	4	.0	.3
-7/-8	.1	.1	.0	.0	.0	2	.1	.1
TOTAL	29	455	598	86	4	1172	77	1095
PCT	2.5	38.8	51.0	7.3	.3	100.0	6.6	93.4

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	1.0	.0	.0	.0	.0	.0	1.0	1.4	.0	.0	.0	.0	.0	1.4
1-2	1.0	2.4	.0	.0	.0	.0	3.5	.0	4.2	.3	.0	.0	.0	4.5
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	1.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	1.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	4.5	1.4	5.6	2.1	.0	.0	.0	9.0
TOT PCT	2.1	2.4	.0	.0	.0	.0								

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	4.2	6.6	1.0	.0	.0	.0	11.8	2.8	1.7	.3	.0	.0	.0	4.9
1-2	1.4	9.4	3.1	.0	.0	.0	13.9	.0	10.4	.7	.0	.0	.0	11.1
3-4	.0	5.9	7.6	1.4	.0	.0	14.9	.0	4.5	8.3	.0	.0	.0	10.8
5-6	.0	.0	4.5	.0	.0	.0	4.5	.0	.0	3.5	.0	.0	.0	3.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	45.1	2.8	16.7	10.8	.0	.0	.0	30.2
TOT PCT	5.6	21.9	16.3	1.4	.0	.0								

PERIOD: (OVER-ALL) 1963-1969

NOVEMBER

AREA 0001 PRINCESS CHARLOTTE BAY
14.0S 144.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	4.9	1.4	.0	.0	.0	6.3	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.3	1.4	.0	.0	.0	8.7	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	.3
1-2	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.7	.7
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.7	.3	.0	.0	.0	.0	1.0	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	15.4	11.5	1.3	.0	.0	.0	28.2	78
1-2	2.6	25.6	3.8	.0	.0	.0	32.1	
3-4	.0	15.4	14.1	1.3	.0	.0	30.8	
5-6	.0	.0	9.0	.0	.0	.0	9.0	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	17.9	52.6	28.2	1.3	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	9.0	27.0	23.6	3.4	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	58	2
6-7	.0	.0	1.1	4.5	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	6
8-9	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
10-11	.0	1.1	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	15.7	2.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	0
TOTAL	22	27	23	11	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	89	2
PCT	24.7	30.3	25.8	12.4	5.6	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

AREA 0001 PRINCESS CHARLOTTE BAY
14.2S 144.0EPERIOD: (PRIMARY) 1898-1969
(OVER-ALL) 1880-1969

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WFA	
N	2.9	1.4	1.4	.0	.0	.0	.0	5.8	.0	22.3	8.6	.0	.7	.0	64.0	
NE	1.7	1.3	.9	.0	.0	.0	.0	3.9	.0	6.5	12.6	.0	.9	.0	76.1	
E	.6	4.7	.2	.0	.0	.0	.0	5.9	1.0	2.2	4.2	.0	.4	.0	86.4	
SE	4.1	15.4	.5	.0	.0	.0	.0	20.0	.2	4.5	10.7	.0	.3	.0	66.7	
S	13.3	9.6	.0	.0	.0	.0	.0	22.9	.0	2.4	4.8	.0	.0	.0	72.3	
SW	20.7	.0	.0	.0	.0	.0	.0	20.7	.0	13.8	13.8	.0	.0	.0	58.6	
W	4.4	4.4	.0	.0	.0	.0	.0	8.8	.0	4.4	8.8	.0	.0	.0	82.4	
NW	6.3	3.2	.0	.0	.0	.0	.0	9.5	.0	19.8	15.8	.0	.8	.0	57.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
TOT PCT	3.6	7.8	.5	.0	.0	.0	.1	12.0	.3	6.7	9.0	.0	.5	.0	73.2	
TOT OBS:	887															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOURL (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000	2.8	5.5	.6	.0	.0	.0	.0	8.8	.6	1.1	11.0	.0	.6	.0	78.5
0600	3.6	5.2	.3	.0	.0	.0	.0	9.2	.3	8.5	7.9	.0	.7	.0	75.1
1200	3.6	8.9	1.2	.0	.0	.0	.0	13.7	.6	16.7	7.1	.0	.0	.0	64.3
1800	6.3	10.3	.0	.0	.0	.0	.3	17.0	.3	6.0	11.0	.0	.7	.0	67.7
TOT PCT TOT OBS:	4.3 954	7.5	.4	.0	.0	.0	.1	12.4	.4	7.8	9.3	.0	.5	.0	71.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

PERCENTAGE FREQUENCY OF WIND																		
WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)								
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21	
N	1.5	6.7	.5	.0	.0	.0	8.7	6.0	4.4	10.2	10.0	11.0	12.9	8.2	7.5	5.3		
NE	3.0	8.4	1.2	.1	.0	.0	12.7	6.3	4.4	15.2	22.6	14.0	19.8	6.6	8.6	7.3		
E	2.3	16.3	6.4	1.0	.0	.0	26.0	8.9	38.2	23.2	24.8	31.0	32.8	28.5	25.1	21.1		
SE	2.9	19.8	8.9	2.4	.0	.0	34.1	10.3	35.3	33.9	31.7	31.8	28.4	37.3	33.9	37.1		
S	.5	2.6	.6	.4	.1	.0	4.2	10.7	8.1	3.0	2.8	3.0	2.6	3.0	5.1	8.2		
SW	.4	1.4	.0	.0	.0	.0	1.8	4.9	.7	2.3	.7	1.2	.0	1.8	3.5	1.8		
W	1.0	1.7	.3	.0	.0	.0	3.0	5.4	2.9	2.0	2.2	1.2	.0	2.7	3.1	7.7		
NW	2.6	4.4	.4	.1	.0	.0	7.4	5.5	5.9	7.6	4.4	6.3	3.4	8.7	11.0	8.0		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	2.0						2.0	.0	.0	2.5	1.0	.6	.0	3.0	2.2	3.5		
TOT OBS	186	704	210	46	3	0	1149		34	197	206	168	29	164	180	171		
TOT PCT	16.2	61.3	18.3	4.0	.3	.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

		WIND SPEED (KNOTS)								HOUR (GMT)			
WIND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00	06	12	18	
									03	09	15	21	
N	5.9	2.7	.1	.0	.0		8.7	6.0	9.3	10.4	8.9	6.4	
NE	8.4	3.9	.3	.1	.0		12.7	6.3	13.6	18.7	8.5	8.0	
E	11.6	11.7	2.5	.2	.0		26.0	8.9	25.4	27.5	29.1	23.1	
SE	9.9	18.2	5.4	.6	.0		34.1	10.3	34.1	31.8	36.0	35.5	
S	2.0	1.3	.4	.5	.0		4.2	10.7	3.8	2.9	3.0	6.6	
SW	1.5	.3	.0	.0	.0		1.8	4.9	2.1	.9	1.6	2.6	
W	2.5	.3	.3	.0	.0		3.0	5.4	2.2	1.7	2.3	5.3	
NW	5.2	2.1	.1	.0	.0		7.4	5.5	7.4	5.2	7.9	9.5	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.0						2.0	.0	2.2	.5	2.6	2.8	
TOT OBS	564	465	104	16	0	1149		8.2	231	374	193	351	
TOT PCT	49.1	40.5	9.1	1.4	.0		100.0		100.0	100.0	100.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1898-1969
(OVER-ALL) 1880-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.25 144.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00603	2.2	16.0	63.2	14.7	3.5	.4	.0	.0	7.7	100.0	231
06609	.8	10.7	67.0	21.9	4.5	.0	.0	.0	8.7	100.0	374
12615	2.6	15.5	55.4	21.2	4.7	.5	.0	.0	8.7	100.0	193
18621	2.8	16.0	62.4	15.1	3.4	.3	.0	.0	7.9	100.0	331
TOT	23	163	704	210	46	3	.0	.0	8.2		1149
PCT	2.0	14.2	61.3	18.3	4.0	.3	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.1	.6	3.3	.0		4.1
NE	4.7	2.2	3.1	.8		3.5
E	11.2	8.9	8.3	3.7		3.9
SE	9.3	7.3	12.0	4.9		4.3
S	.0	.0	2.6	1.4		6.8
SW	.0	.0	.2	.7		6.9
W	1.4	.8	2.4	.0		4.4
NW	2.6	1.6	1.2	.0		3.3
VAR	.0	.0	.0	.0		.0
CALM	1.6	.8	.0	.0		1.6
TOT OBS	43	28	42	14	127	4.1
TOT PCT	33.9	22.0	33.1	11.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	.8	1.4	.0	.0	.0	.0	.0	4.9
NE	.0	.0	.8	.0	.8	.2	.0	.8	.0	.0	.0	8.3
E	.0	.0	.6	1.8	3.9	.6	1.2	.0	.0	.0	.0	24.0
SE	.0	.0	.2	.6	4.7	2.8	.4	.0	.0	.0	.0	24.8
S	.0	.0	.0	.6	.8	.6	.0	.0	.0	.0	.0	2.0
SW	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2
W	.0	.0	.0	.0	1.6	.8	.0	.0	.0	.0	.0	2.2
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4
TOT OBS	0	2	4	16	8	2	1	0	0	0	0	94
TOT PCT	.0	.0	1.6	3.1	12.6	6.3	1.6	.8	.0	.0	.0	74.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	.0	.0	.0	.0	.0	.0	.0
>6000	.8	.8	.8	.8	.8	.8	.8	.8
>5500	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
>5000	7.7	7.7	8.5	8.5	8.5	8.5	8.5	8.5
>4500	18.5	20.8	21.5	21.5	21.5	21.5	21.5	21.5
>4000	21.5	23.8	24.6	24.6	24.6	24.6	24.6	24.6
>3500	23.1	25.4	26.2	26.2	26.2	26.2	26.2	26.2
>3000	23.1	25.4	26.2	26.2	26.2	26.2	26.2	26.2
>2500	23.1	25.4	26.2	26.2	26.2	26.2	26.2	26.2
>2000	23.1	25.4	26.2	26.2	26.2	26.2	26.2	26.2
TOTAL	30	33	34	34	34	34	34	34

TOTAL NUMBER OF OBS: 130

PCT FREQ NH <5/8: 73.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	6.4	26.2	12.8	17.0	10.6	6.4	8.5	7.1	5.0	.0	141

PERIOD: (PRIMARY) 1898-1949
(OVER-ALL) 1880-1969

DECEMBER

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14.25 144.6F

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.1	.0	.0	1.1	.2	.3	.1	.2	.0	.0	2.0	
	NO PCP	1.1	1.9	1.4	4.2	.2	.2	.2	1.7	.0	.0	10.8	
	TOT %	1.2	1.9	1.4	5.2	.3	.6	.3	1.9	.0	.0	12.9	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
2<5	PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
5<10	PCP	.2	.4	1.5	5.5	.8	.0	.1	.5	.0	.0	9.0	
	NO PCP	4.5	7.7	17.1	17.4	2.7	1.0	.9	3.5	.0	.5	55.2	
	TOT %	4.7	8.1	18.6	22.9	3.5	1.0	1.0	3.9	.0	.5	64.2	
10+	PCP	.0	.1	.1	.5	.1	.0	.0	.0	.0	.0	.8	
	NO PCP	1.7	3.0	7.0	6.7	.6	.1	1.2	1.2	.0	.3	21.9	
	TOT %	1.7	3.1	7.1	7.2	.8	.1	1.2	1.2	.0	.3	22.7	
TOT OBS													896
TOT PCT		7.8	13.0	27.1	35.3	4.6	1.6	2.6	7.1	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.3	1.0	.3	1.5	.0	.2	.2	1.0	.0	.1	4.6	
	4-10	.7	.6	.8	2.4	.2	.3	.1	.7	.0	.0	5.8	
	11-21	.0	.0	.1	.5	*	.0	.0	.0	.0	.0	.7	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	1.1	1.6	1.2	4.5	.3	.5	.3	1.7	.0	.1	11.2	
1<2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.0	.0	.1	.0	.0	.0	*	.0	.0	.3	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.0	.2	.0	.0	.0	*	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.3	
	11-21	*	.0	.0	.1	.0	.0	.0	*	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.0	.1	.1	.0	.0	*	.0	.1	.6	
5<10	0-3	.6	1.0	1.2	.6	.4	.0	.5	1.2	.0	.6	6.0	
	4-10	3.4	5.2	9.5	12.3	1.7	.9	.6	2.2	.0	.0	35.8	
	11-21	.2	1.0	4.9	5.3	.5	.0	.0	.1	.0	.0	12.1	
	22+	.0	.1	1.1	2.1	.5	.0	.0	.0	.0	.0	3.9	
	TOT %	4.2	7.4	16.6	20.4	3.1	.9	1.1	3.5	.0	.6	57.8	
10+	0-3	.2	.4	.8	.5	.1	*	.4	.3	.0	.9	3.7	
	4-10	1.7	3.0	6.5	5.4	.7	.3	.9	1.3	.0	.0	19.8	
	11-21	.2	.2	1.5	3.1	.1	.0	.3	.3	.0	.0	5.8	
	22+	.0	.0	*	.5	*	.0	.0	.1	.0	.0	.7	
	TOT %	2.1	3.6	8.9	9.5	1.0	.4	1.6	1.9	.0	.9	29.9	
TOT OBS													1026
TOT PCT		7.8	12.7	26.7	34.7	4.5	1.7	3.0	7.2	.0	1.7	100.0	

DECEMBER

PERIOD: (PRIMARY) 1898-1969
(OVER-ALL) 1880-1969

AREA 0001 PRINCESS CHARLOTTE BAY
14.25 144.6E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	2.9	.0	11.8	11.8	.0	.0	.0	.0	26.5	73.5	34
06009	.0	.0	.0	.0	15.4	2.6	.0	.0	.0	.0	17.9	82.1	39
12015	.0	.0	.0	3.1	12.5	6.3	3.1	.0	.0	.0	25.0	75.0	32
18021	.0	.0	3.1	9.4	9.4	3.1	3.1	3.1	.0	.0	31.3	68.8	32
TOT	0	0	2	4	17	8	2	1	0	0	34	103	137
PCT	.0	.0	1.5	2.9	12.4	5.8	1.5	.7	.0	.0	24.8	75.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	10.0	.0	.5	52.9	36.7	210
06009	.0	11.3	.8	.3	59.2	28.3	353
12015	.0	10.8	.0	1.1	62.7	25.4	185
18021	.0	12.8	.6	.6	60.3	25.8	345
TOT	0	125	5	6	644	313	1093
PCT	.0	11.4	.5	.5	58.9	28.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	3.2	3.2	25.8	71.0	31
06009	.0	.0	.0	18.9	81.1	37
12015	.0	.0	6.5	19.4	74.2	31
18021	.0	3.2	12.9	19.4	67.7	31
TOT	0	2	7	27	96	130
PCT	.0	1.5	5.4	20.8	73.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.8	.0	.0	.0	2	.8
85/89	.0	.0	.0	.0	4.1	5.3	3.3	.0	31	12.7
80/84	.0	.0	.0	.4	4.1	27.8	35.5	11.0	193	78.8
75/79	.0	.0	.0	.0	.4	3.3	1.2	2.9	19	7.8
TOTAL	0	0	0	1	23	89	98	34	245	100.0
PCT	.0	.0	.0	.4	9.4	36.3	40.0	13.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90	.0	.1	.7	.0	.0	.0	.0	.0	.0	.0
85	1.2	3.1	2.0	4.9	.0	.0	.0	.6	.0	.8
80	4.7	9.6	25.7	24.7	4.1	.8	3.0	5.0	.0	1.2
75	.0	.4	1.0	3.1	.4	.0	.4	.4	.0	.0
TOT	5.9	13.2	29.5	34.7	4.5	.8	3.4	6.0	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	88	87	84	79	77	76	83.5	240
06009	90	89	87	83	80	78	71	83.0	386
12015	85	84	84	81	78	77	74	81.2	204
18021	86	85	84	81	78	76	75	81.1	380
TOT	90	88	86	82	78	77	71	82.2	1210

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	12.7	40.0	36.4	10.9	79	55
06009	.0	1.2	14.6	32.9	41.5	9.8	78	42
12015	.0	.0	6.0	36.0	44.0	14.0	82	50
18021	.0	.0	2.7	33.3	40.0	24.0	83	75
TOT	0	1	24	92	106	39	81	252

DECEMBER

PERIOD: (PRIMARY) 1898-1969
(OVER-ALL) 1880-1969

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TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
7/8	.0	.0	.1	.3	.0	4	.0	.5
6	.0	.0	.1	.6	.3	9	.1	.9
5	.0	.0	.5	1.9	.0	21	.1	2.3
4	.0	.0	3.3	3.7	.3	84	.6	6.7
3	.0	.0	7.1	3.7	.1	91	.5	9.9
2	.0	1.3	12.2	3.1	.0	145	1.7	14.9
1	.0	5.8	9.4	2.3	.0	153	1.4	16.1
0	.0	4.1	13.9	1.8	.0	174	3.5	16.3
-1	.0	3.8	5.7	.0	.0	83	.9	8.6
-2	.1	2.9	5.3	.0	.0	72	.6	7.7
-3	.0	2.1	1.1	.2	.0	30	.2	3.2
-4	.1	1.0	.7	.0	.0	16	.2	1.6
-5	.0	.7	.3	.0	.0	9	.1	.9
-6	.1	.1	.1	.0	.0	3	.0	.3
-7/-8	.0	.1	.0	.0	.0	1	.0	.1
TOTAL	3	191	524	150	7	875	87	788
PCT	.3	21.8	59.9	17.1	.8	100.0	9.9	90.1

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.9	.0	.0	.0	.0	.0	.9	.3	2.4	.0	.0	.0	.0	2.7
1-2	.0	3.0	1.2	.0	.0	.0	4.2	.0	8.4	1.5	.0	.0	.0	9.9
3-4	.0	1.8	2.1	.0	.0	.0	3.9	.0	.3	.0	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	4.8	3.3	.0	.0	.0	9.0	.3	11.1	1.5	.0	.0	.0	13.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	1.2	6.0	.0	.0	.0	.0	7.2	.0	.0	.0	.0	.0	.0	.0
1-2	1.2	12.7	3.3	.0	.0	.0	17.2	.0	5.4	2.4	.0	.0	.0	7.8
3-4	.0	2.4	1.8	.0	.0	.0	4.2	.0	.0	9.0	2.4	.0	.0	11.4
5-6	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	3.9	.0	.0	.0	3.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	21.1	7.2	.0	.0	.0	30.7	.0	5.4	15.4	2.4	.0	.0	23.2

PERIOD: (OVER-ALL) 1963-1969

DECEMBER

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S								SW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	1.2	.0	.0	.0	.0	1.2		.0	.0	.0	.0	.0	.0	.0	
1-2	.9	2.7	.0	.0	.0	.0	3.6		.3	.3	.0	.0	.0	.0	.6	
3-4	.0	.0	1.2	.0	.0	.0	1.2		.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.9	3.9	1.2	.0	.0	.0	6.0		.3	.3	.0	.0	.0	.0	.6	

	W								NW								TOTAL PCT
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT		1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.9	.0	.0	.0	.0	.9		1.2	1.5	.0	.0	.0	.0	2.7		
1-2	.0	1.2	.0	.0	.0	.0	1.2		.0	2.4	.0	.0	.0	.0	2.4		
3-4	.0	.0	3.6	.0	.0	.0	3.6		.0	.3	1.5	1.2	.0	.0	3.0		
5-6	.0	.0	.0	.0	.0	.0	.0		.0	.0	1.2	.0	.0	.0	1.2		
7	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
8-9	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	2.1	3.6	.0	.0	.0	5.7		1.2	4.2	2.7	1.2	.0	.0	9.3	97.6	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.1	11.9	.0	.0	.0	.0	19.0	
1-2	2.4	35.7	8.3	.0	.0	.0	46.4	
3-4	.0	4.8	19.0	3.6	.0	.0	27.4	
5-6	.0	.0	7.1	.0	.0	.0	7.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.5	52.4	34.5	3.6	.0	.0	100.0	84

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	12.0	25.0	23.1	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	2
6-7	.0	1.9	16.7	6.5	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	4
8-9	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	0
TOTAL	19	29	43	13	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	108	3
PCT	17.6	26.9	39.8	12.0	2.8	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1896-1971
(OVER-ALL) 1854-1971

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WE
N	2.2	3.0	.1	.0	.0	.0	.0	5.3	1.5	2.1	5.4	.0	1.4	.0
NE	7.3	3.9	.1	.0	.0	.0	.0	6.3	.1	2.4	3.4	.0	.5	.0
E	2.8	3.7	.4	.0	.0	.0	.1	6.9	.8	.9	2.9	.0	.6	.0
SE	3.1	8.8	.8	.0	.0	.0	.1	12.6	1.1	.9	4.9	.0	1.0	.0
S	4.6	9.8	.7	.0	.0	.0	*	15.2	.3	1.9	4.2	.0	.8	.0
SW	5.8	2.0	1.4	.0	.0	.0	.0	9.2	1.1	1.7	3.3	.0	.6	.0
W	9.7	1.3	.4	.0	.0	.0	.0	11.4	.0	3.1	2.1	.0	.0	.0
NW	2.3	2.9	.5	.0	.0	.0	.0	5.6	.1	2.7	4.2	.0	.7	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8	.0	.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	1.7	.0
TOT PCT	3.1	6.8	.7	.0	.0	.0	.1	10.6	.8	1.4	4.2	.0	1.0	.0
TOT OBS:	9815													82.6

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WE
00003	2.7	4.8	.8	.0	.0	.0	.0	8.4	.9	.4	4.1	.0	1.3	.0
06009	3.0	6.6	.7	.0	.0	.0	.1	10.4	.8	1.6	4.7	.0	1.4	.0
12015	3.7	6.5	.6	.0	.0	.0	.1	10.8	1.2	2.9	3.4	.0	.3	.0
18021	4.2	8.6	.6	.0	.0	.0	*	13.4	.6	1.4	4.0	.0	.5	.0
TOT PCT	3.4	6.8	.7	.0	.0	.0	.1	10.9	.8	1.5	4.1	.0	.9	.0
TOT OBS:	10297													82.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.0	2.9	.5	.0	*	.0		4.3	5.0	2.3	4.8	5.7	5.8	3.7	4.1	3.3	3.0
NE	1.5	4.1	.5	*	*	.0		6.2	6.1	3.2	5.9	9.7	7.5	4.4	5.7	4.6	3.9
E	2.3	13.6	6.9	.7	*	.0		23.6	9.5	22.8	22.3	25.4	23.7	22.7	24.6	23.1	20.5
SE	3.0	24.9	18.7	2.6	*	.0		49.2	10.9	51.4	49.1	46.8	48.6	55.4	50.4	49.5	50.1
S	.8	4.4	2.1	.4	*	.0		7.7	9.4	11.9	8.4	6.5	5.5	10.1	7.0	7.7	10.1
SW	.3	1.1	.1	*	.0	.0		1.5	5.9	2.5	1.2	.8	.4	.5	1.4	2.4	2.8
W	.4	1.2	.2	.0	*	.0		1.9	5.7	2.3	1.4	1.1	1.3	1.3	1.2	2.0	4.2
NW	.8	2.3	.5	*	*	.0		3.6	5.3	2.1	4.6	2.7	4.0	1.2	3.9	4.2	3.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0	1.4	2.3	1.3	1.3	.8	1.8	3.1	1.9
TOT OBS							13415		9.6	345	2295	2270	2033	256	1973	2094	2149
TOT PCT	12.1	54.4	29.7	3.7	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	2.8	1.4	.1	.0	*		4.3	5.0	4.3	5.7	4.0	3.1
NE	4.2	1.8	.1	*	*		6.2	6.1	5.5	8.7	5.6	4.3
E	8.2	12.5	2.8	.1	.0		23.6	9.5	22.6	25.6	24.5	21.8
SE	11.2	27.9	9.4	.8	*		49.2	10.9	49.6	47.6	51.0	49.6
S	2.5	4.1	.9	.2	.0		7.7	9.4	8.7	6.0	7.5	8.9
SW	1.0	.5	.1	.0	.0		1.5	5.9	1.5	.6	1.3	2.6
W	1.2	.6	.1	*	.0		1.9	5.7	1.6	1.2	1.2	3.2
NW	1.9	1.6	.1	*	.0		3.6	5.3	4.0	3.3	3.4	3.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.9						1.9	.0	2.2	1.3	1.7	2.5
TOT OBS						13415		9.6	2640	4303	2229	4243
TOT PCT	35.0	50.3	13.6	1.1	*		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	2.2	11.6	53.0	29.8	3.5	*	.0	.0	9.4	100.0	2640
06009	1.3	9.5	52.8	32.1	4.2	!	.0	.0	9.9	100.0	4303
12015	1.7	9.1	52.2	33.0	4.1	*	.0	.0	10.0	100.0	2229
18021	2.5	10.5	58.2	25.6	3.3	*	.0	.0	9.1	100.0	4243
TOT									9.6		13415
PCT	1.9	10.2	54.4	29.7	3.7	.1	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.2	.4	1.6	.4		3.2
NE	1.8	.7	2.0	.4		3.4
E	8.1	7.1	7.5	2.8		4.0
SE	15.7	13.5	14.2	5.6		4.0
S	2.6	2.5	3.7	1.0		4.4
SW	.3	.4	.6	.5		3.8
W	.6	.2	.8	.5		2.4
NW	.6	.3	.4	.4		1.8
VAR	.0	.0	.0	.0		.0
CALM	.7	.3	.4	.0		2.1
TOT OBS					1084	4.0
TOT PCT	31.6	25.4	31.3	11.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.1	.1	.2	.4	.1	.0	.0	.0	.0	2.9
NE	.0	.0	.1	.4	.5	.1	.0	.1	.0	.1	.0	3.5
E	.1	.0	.3	1.9	2.1	.7	.5	.2	.2	.1	.1	19.5
SE	.2	.2	.3	3.0	5.9	2.5	.6	.1	.1	*	*	36.1
S	.0	.0	.2	.8	1.2	.6	.2	.0	.0	.0	.0	6.8
SW	.0	.0	.0	.1	.2	.1	.0	.0	.1	.0	.0	1.2
W	.0	.0	.1	.1	.3	.3	.0	.0	.0	.0	.0	1.4
NW	.0	.0	.1	.0	.2	.1	*	.1	.0	.0	.0	1.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1.3
TOT OBS												1084
TOT PCT	.3	.2	1.1	6.4	10.7	4.8	1.5	.5	.4	.2	74.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	.7	.7	.7	.7	.7	.7	.7	.7
>5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>5500	2.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6
>6000	6.2	7.2	7.3	7.3	7.3	7.3	7.3	7.3
>1000	14.3	17.4	17.9	18.0	18.0	18.0	18.0	18.0
>600	18.7	23.2	24.1	24.4	24.5	24.5	24.5	24.5
>300	19.6	24.3	25.3	25.6	25.7	25.7	25.7	25.7
>150	19.6	24.4	25.5	25.8	25.8	25.8	25.8	25.8
>0	19.8	24.7	25.9	26.1	26.2	26.2	26.2	26.2

TOTAL NUMBER OF OBS: 1104

PCT FREQ NH <5/8: 73.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	9.4	18.4	18.7	15.9	10.5	8.0	6.8	5.4	6.6	.3	1204

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	*	.0	*	.3	.1	*	*	*	.0	.0	.5	
	NO PCP	.2	.3	.7	2.3	.2	*	*	.2	.0	.0	4.0	
	TOT %	.2	.3	.8	2.6	.3	.1	*	.2	.0	.0	4.5	
1<2	PCP	*	*	.1	.1	*	.0	.0	.0	.0	.0	.2	
	NO PCP	.1	*	.1	.2	*	.0	.0	.1	.0	.0	.5	
	TOT %	.1	*	.2	.3	.1	.0	.0	.1	.0	.0	.7	
2<5	PCP	*	*	.1	.2	.0	*	*	.0	.0	.0	.4	
	NO PCP	*	*	.1	.2	*	*	.0	.0	.0	.0	.4	
	TOT %	*	*	.2	.4	*	.1	*	.0	.0	.0	.8	
5<10	PCP	.3	.3	1.2	5.3	1.1	.1	.1	.4	.0	*	8.7	
	NO PCP	2.1	3.7	14.3	30.8	3.4	.8	.7	1.5	.0	.3	57.8	
	TOT %	2.4	4.0	15.5	36.1	4.5	.9	.9	1.9	.0	.3	66.4	
10+	PCP	.1	*	.2	.4	.1	*	*	.1	.0	.0	.9	
	NO PCP	1.2	1.5	6.6	12.1	2.3	.7	.8	.9	.0	.4	26.6	
	TOT %	1.4	1.5	6.7	12.5	2.5	.7	.8	1.0	.0	.4	27.5	
													9808
TOT OBS													
TOT PCT		4.1	6.0	23.4	52.0	7.4	1.7	1.7	3.2	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	*	*	.0	.0	*	.0	.0	.1	
1/2<1	0-3	.1	.2	.1	.3	*	*	*	.1	.0	.0	.8	
	4-10	.1	.1	.4	1.2	.2	*	*	.1	.0	.0	2.1	
	11-21	*	*	.2	.7	.1	.0	.0	.0	.0	.0	1.0	
	22+	.0	.0	*	.1	*	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.3	.7	2.3	.2	*	*	.2	.0	*	4.0	
1<2	0-3	*	*	*	*	*	.0	.0	.0	.0	.0	.3	
	4-10	*	*	.1	.1	*	.0	.0	*	.0	.0	.4	
	11-21	*	*	*	.2	*	.0	.0	*	.0	.0	*	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.1	*	.2	.3	.1	.0	.0	*	.0	.0	.7	
2<5	0-3	.0	.0	*	*	.0	*	*	.0	.0	*	.1	
	4-10	.1	*	.1	.2	.1	*	*	*	.0	.0	.5	
	11-21	*	*	.1	.3	*	*	*	*	.0	.0	.5	
	22+	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.3	.5	.1	.1	.1	.1	.0	*	1.2	
5<10	0-3	.4	1.0	1.4	2.2	.5	.2	.2	.4	.0	.4	6.6	
	4-10	1.3	2.1	8.0	16.1	2.2	.5	.5	1.1	.0	.0	31.9	
	11-21	.2	.3	3.7	10.7	1.0	.1	.1	.2	.0	.0	16.2	
	22+	.0	*	.5	1.9	.2	.0	.0	*	.0	.0	2.7	
	TOT %	1.9	3.4	13.5	30.9	4.0	.7	.8	1.7	.0	.4	57.3	
10+	0-3	.3	.4	.8	.7	.3	.1	.1	.2	.0	1.1	3.9	
	4-10	1.3	1.7	5.3	7.6	1.8	.5	.7	1.0	.0	.0	20.0	
	11-21	.2	.1	2.7	7.5	1.1	.1	.1	.3	.0	.0	12.1	
	22+	.0	.0	.1	.5	.1	.0	.0	*	.0	.0	.7	
	TOT %	1.8	2.2	8.9	16.4	3.2	.7	1.0	1.4	.0	1.1	36.7	
TOT OBS													11635
TOT PCT		4.0	6.1	23.5	50.5	7.6	1.5	1.8	3.4	.0	1.5	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL DBS	NH <5/8 ANY HGT	TOTAL DBS
00003	.0	.3	1.2	6.0	13.6	5.1	1.8	.5	.5	.3	29.3	70.7	345
06009	.0	.3	.8	6.8	8.7	4.4	.3	.0	.3	.2	21.8	78.2	341
12015	.5	.0	1.4	4.0	9.3	3.2	.7	.4	.4	.0	20.0	80.0	247
18021	1.4	.0	1.2	8.1	7.6	5.4	2.6	.8	.4	.4	27.7	72.3	233
TOT PCT	.3	.2	1.1	6.2	10.1	4.5	1.3	.4	.4	.2	24.8	75.2	1166 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	.0	4.0	.7	1.4	50.2	43.7	2296
06009	.1	4.6	.7	1.5	60.0	33.2	3876
12015	.0	3.2	.7	.9	58.4	36.8	2019
18021	.1	3.9	.7	.9	60.6	33.8	3088
TOT PCT	.1	4.0	.7	1.2	58.0	36.1	12079 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL DBS
00003	.0	1.3	9.0	22.1	68.9	331
06009	.0	1.2	9.2	14.3	76.5	320
12015	.5	2.5	6.8	14.1	79.2	236
18021	1.3	2.8	11.4	18.3	70.3	217
TOT PCT	.4	1.8	9.0	17.4	73.6	1104 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
94/99	.0	.0	.0	.0	.0	*	.0	.0	*	.0
90/94	.0	.0	*	*	.2	*	.0	.0	.3	.0
85/89	.0	.0	.1	.4	1.1	3.1	1.5	.4	6.5	.0
80/84	.0	.0	*	.4	3.7	14.4	16.3	4.8	39.7	.0
75/79	.0	.0	.1	.4	2.8	13.8	13.1	8.3	38.4	.0
70/74	.0	.0	.0	.4	1.9	3.4	4.3	4.4	14.3	.0
65/69	.0	.0	.0	.0	.2	*	.3	.2	.7	.0
60/64	.0	.0	.0	.0	.0	.0	*	*	.1	.0
TOTAL PCT	.0	.0	.3	1.5	9.9	34.8	35.5	18.0	2943	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	*	.0	.0	.0	.0	.0	.0	.0
.1	*	.1	.1	.0	.0	.0	*	.0	.0
.6	.5	1.5	2.6	.3	.0	.3	.4	.0	.3
2.3	2.3	11.0	17.3	2.5	.7	1.1	2.1	.0	.4
.8	1.9	8.7	22.7	2.9	.5	.2	.4	.0	.3
.2	.4	1.9	8.9	2.1	.4	.2	.2	.0	.1
.0	.0	.1	.4	.2	*	.0	.0	.0	.0
.0	.0	.0	*	*	.0	.0	.0	.0	.0
4.0	5.2	23.3	52.0	8.0	1.7	1.7	3.0	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	96	86	84	80	76	74	66	79.7	2647
06009	95	85	84	80	76	74	61	79.0	4378
12015	87	82	81	78	75	73	63	77.4	2268
18021	90	83	81	78	74	72	59	77.2	4416
TOT	96	85	83	79	75	73	59	78.3	13709

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	1.7	14.1	39.0	30.9	14.3	79	672
06009	.0	2.8	12.3	39.3	31.0	14.7	79	982
12015	.0	1.7	6.9	32.2	40.5	18.8	81	517
18021	.0	.6	5.2	26.4	41.5	25.8	83	838
TOT	0	52	302	1063	1084	568	80	3049

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	NO FOG
11/13	.0	.0	.0	*	*	.0	*	6	.0	.1
9/10	.0	.0	*	.1	*	.0	*	17	*	.2
7/8	.0	.0	*	.2	.3	.2	*	68	*	.8
6	.0	*	.1	.3	.3	.1	*	96	.1	.9
5	.0	.0	.1	.7	1.1	.6	.1	250	.1	2.6
4	.0	*	.5	2.4	1.7	1.0	.1	594	.2	5.5
3	.0	*	1.7	4.0	2.8	1.0	.1	1031	.5	9.0
2	.0	.3	3.7	5.8	4.9	1.4	.0	1371	.8	15.2
1	*	.4	5.1	5.8	4.3	.9	.0	1655	.8	15.7
0	*	.7	4.2	6.3	7.6	.6	.0	1602	1.0	18.4
-1	*	.6	2.1	3.9	3.4	.2	.0	744	.4	9.8
-2	*	.6	1.4	2.6	4.2	*	.0	569	.2	8.8
-3	*	.3	.6	1.8	1.1	*	.0	220	*	3.8
-4	*	.2	.3	1.3	.7	.0	.0	131	.1	2.5
-5	*	.1	.2	.8	.2	.0	.0	68	*	1.3
-6	*	*	.1	.3	.1	.0	.0	29	.0	.6
-7/-8	*	*	.1	.1	*	.0	.0	22	*	.3
-9/-10	*	.0	.0	.1	.0	.0	.0	4	.0	.1
-11/-13	.0	.0	*	.0	.0	.0	.0	1	.0	*
TOTAL								8676		
PCT	.3	3.2	20.4	36.6	32.8	6.3	.5	100.0	4.4	95.6

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TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.5	.0	.0	.0	.0	.6	.5	.8	.0	.0	.0	.0	1.4
1-2	.2	.7	.2	.0	.0	.0	1.2	.0	2.2	.4	.0	.0	.0	2.6
3-4	.0	.5	.3	.0	.0	.0	.7	.0	.2	.2	.0	.0	.0	.4
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.7	.6	.0	.0	.0	2.7	.5	3.3	.7	.0	.0	.0	4.6

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	1.0	2.3	.1	.0	.0	.0	3.3	.4	2.8	.3	.0	.0	.0	3.6
1-2	.2	7.6	2.2	.0	.0	.0	10.1	.1	7.7	5.8	.0	.0	.0	13.6
3-4	.0	3.3	5.5	.1	.0	.0	8.9	.1	3.8	16.8	1.2	.0	.0	21.9
5-6	.0	.2	2.5	.1	.0	.0	2.8	.0	.9	7.8	.6	.0	.0	9.0
7	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	1.7	.9	.0	.0	2.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	13.4	11.4	.2	.0	.0	26.2	.7	15.2	32.2	2.7	.0	.0	50.8

PERIOD: (OVER-ALL) 1953-1971

ANNUAL

AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.7	.0	.0	.0	.0	1.7	.0	.2	.0	.0	.0	.0	.2
1-2	.1	1.8	1.4	.0	.0	.0	3.2	.0	.5	.0	.0	.0	.0	.7
3-4	.0	1.6	7.5	.1	.0	.0	4.2	.0	*	.0	.0	.0	.0	.1
5-6	.0	.1	1.1	.2	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.2	.1	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.1	4.1	5.2	.4	.0	.0	9.8	.2	.8	.2	.1	.0	.0	1.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.1	.4	.0	.0	.0	.0	.5	.3	.2	.0	.0	.0	.0	.5	
1-2	.0	.5	.0	.0	.0	.0	.5	.0	.8	.0	.0	.0	.0	.8	
3-4	.0	.2	.5	.0	.0	.0	.7	.0	*	.2	.1	.0	.0	.4	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	1.2	.5	.0	.0	.0	1.8	.3	1.0	.5	.1	.0	.0	1.9	99.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	4.4	8.1	.4	.0	.0	.0	13.0	085
1-2	1.1	21.5	9.9	.0	.0	.0	32.4	
3-4	.1	9.5	25.6	1.5	.0	.0	36.7	
5-6	.0	1.1	11.5	.9	.0	.0	13.4	
7	.0	.0	3.0	1.1	.0	.0	4.1	
8-9	.0	.0	.3	.0	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	834
TOT PCT	5.6	40.2	50.7	3.5	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.0	27.5	25.5	7.0	2.3	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	749	3
6-7	.0	.8	7.2	5.2	3.9	.4	.6	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	198	5
8-9	.0	.0	.5	1.7	.7	.8	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	6
10-11	.0	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
12-13	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	4
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	5.5	.7	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	0
TOTAL																				1070	3
PCT	13.5	29.1	34.1	14.1	6.9	1.5	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1894-1971
(OVER-ALL) 1855-1971

AREA 0001 PRINCESS CHARLOTTE BAY
14.15 144.4E

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.9	2.2	.2	.0	.0	.0	.0	.0	.1	.0	.1	.5	39	.3
87/88	3.1	2.2	7.6	1.1	.0	.0	.0	.0	.1	.0	.9	8.4	306	2.5
85/86	15.5	12.0	23.7	7.1	.7	.1	.1	.3	.7	10.2	27.2	1060	8.7	
83/84	37.9	40.4	23.7	7.1	.7	.1	.1	.3	.7	10.2	27.2	1060	8.7	
81/82	34.7	33.2	48.8	33.3	5.7	2.9	.3	.3	.4	5.8	28.8	33.9	1786	14.6
79/80	6.2	7.9	15.3	33.6	22.2	4.9	.8	.4	6.2	28.4	39.1	25.1	1923	15.7
77/78	1.7	3.1	3.6	19.5	38.6	18.4	4.4	6.2	16.0	42.0	17.0	4.8	1901	15.6
75/76	.0	.9	.7	4.1	25.3	40.5	19.7	28.3	47.0	18.1	3.5	.1	2267	16.6
73/74	.0	.0	.2	1.1	5.7	21.1	44.8	41.0	24.9	5.0	.3	.0	1932	15.8
71/72	.0	.2	.0	.0	.7	10.3	24.9	19.5	4.2	.1	.2	.0	816	6.7
69/70	.0	.0	.0	.2	.8	1.5	4.4	3.4	.6	.0	.0	.0	144	1.2
67/68	.0	.0	.0	.0	.1	.3	.4	.6	.1	.0	.0	.0	21	.2
65/66	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	.1
63/64	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	580	458	550	538	707	862	1398	1576	1392	1516	1438	1136	12211	100.0
MEAN	82.9	82.5	81.8	79.8	77.3	75.2	73.4	73.7	75.3	77.7	80.0	81.7	78.4	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

	MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1008	1008	1006	1007	1007	1008	1008	1005	1008	1007	262
FEB	1009	1008	1006	1007	1008	1009	1009	1006	1008	1007	266
MAR	1011	1009	1008	1008	1009	1010	1008	1009	1009	1009	315
APR	1012	1011	1010	1011	1012	1011	1010	1010	1011	1011	294
MAY	1014	1013	1011	1012	1013	1013	1012	1013	1013	1012	332
JUN	1015	1014	1012	1013	1015	1014	1013	1013	1013	1013	354
JUL	1016	1014	1013	1014	1016	1015	1014	1015	1014	1014	361
AUG	1016	1014	1013	1013	1015	1015	1013	1013	1014	1014	342
SEP	1015	1014	1012	1013	1015	1015	1013	1012	1013	1013	313
OCT	1015	1013	1011	1012	1014	1013	1012	1013	1013	1013	283
NOV	1012	1011	1009	1010	1011	1011	1010	1011	1011	1011	334
DEC	1010	1009	1007	1008	1009	1009	1007	1009	1008	1008	328
ANN	1013	1012	1010	1011	1012	1012	1010	1012	1011	1011	3784
OBS	335	537	667	486	244	435	556	524			

PERCENTILES

	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	998	999	1002	1005	1007	1009	1012	1013	1014
FEB	999	1000	1002	1005	1007	1009	1012	1013	1013
MAR	1001	1002	1004	1007	1009	1011	1013	1014	1015
APR	1004	1005	1007	1009	1011	1012	1014	1016	1017
MAY	1006	1006	1009	1011	1012	1014	1017	1018	1019
JUN	1006	1007	1009	1012	1013	1015	1018	1020	1021
JUL	1006	1008	1010	1013	1014	1016	1018	1020	1022
AUG	1007	1008	1010	1013	1014	1016	1018	1020	1022
SEP	1004	1005	1010	1012	1014	1015	1018	1020	1021
OCT	1005	1006	1008	1011	1013	1014	1016	1018	1019
NOV	1002	1004	1006	1009	1011	1012	1015	1016	1018
DEC	1001	1002	1004	1007	1008	1010	1012	1014	1015

PERIOD: (PRIMARY) 1918-1971
(OVER-ALL) 1883-1971

JANUARY

AREA 0002 CAIRNS
17.05 146.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE															OTHER WEATHER PHENOMENA				
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA				
N	1.7	10.5	.0	.0	.0	.0	.0	12.2	.0	1.2	.0	.0	1.2	.0	85.5				
NE	2.1	10.7	2.1	.0	.0	.0	.0	15.0	2.1	2.1	2.1	.0	1.1	.0	79.7				
E	2.4	6.5	.9	.0	.0	.0	.0	9.7	2.1	1.2	3.5	.0	.9	.0	82.6				
SE	3.9	10.6	1.6	.0	.0	.0	.0	16.8	4.4	.7	2.1	.0	.2	.0	73.8				
S	7.8	13.1	.0	.0	.0	.0	.0	20.9	4.6	2.6	2.6	.0	.0	.0	71.9				
SW	5.4	.0	.0	.0	.0	.0	.0	5.4	13.5	.0	.0	.0	.0	.0	70.3				
W	8.7	8.7	.0	.0	.0	.0	.0	17.4	8.7	.0	.0	.0	10.8	.0	73.9				
NW	5.7	4.6	.0	.0	.0	.0	.0	10.3	.0	2.3	.0	.0	.0	.0	87.4				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0	90.0				
TOT PCT	3.7	9.1	1.0	.0	.0	.0	.2	14.0	3.2	1.2	2.0	.0	1.0	.0	79.1				
TOT OBS:	407																		

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	5.8	8.1	3.5	.0	.0	.0	.0	17.4	3.5	.0	2.3	.0	2.3	.0	74.4
06009	1.5	8.2	.0	.0	.0	.0	.0	9.7	1.5	.0	3.0	.0	.0	.0	85.8
12015	4.2	7.4	1.1	.0	.0	.0	.0	12.6	3.2	4.2	2.1	.0	1.1	.0	77.9
18021	3.0	10.6	.8	.0	.0	.0	.8	15.2	3.8	.8	.0	.0	1.5	.0	70.5
TOT PCT TOT OBS:	3.4 447	8.7	1.1	.0	.0	.0	.2	13.4	2.9	1.1	1.8	.0	1.1	.0	80.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	2.5	10.2	1.3	.0	.0	.0		14.0	6.7		.0	18.4	14.3	11.4	18.2	17.1	11.9	12.5
NE	1.8	8.0	1.3	.1	.0	.0		11.2	6.8		4.5	10.4	11.3	14.3	23.5	13.4	9.3	5.5
E	1.7	12.5	4.6	.5	.0	.0		19.3	8.8		17.0	21.9	23.0	20.2	10.6	19.0	15.7	19.0
SE	1.9	16.1	11.5	1.3	.0	.0		30.7	10.6		61.4	28.1	36.9	34.2	31.8	25.5	27.9	23.5
S	1.5	4.4	1.6	.3	.0	.0		7.8	7.9		3.4	5.2	3.1	5.5	6.1	11.6	12.8	11.0
SW	.0	1.2	.1	.1	.0	.0		2.0	7.2		.0	.0	.0	2.2	9.1	.9	3.8	3.5
W	.6	1.5	.5	.0	.0	.0		2.6	6.8		.0	1.9	1.6	1.3	.0	.0	5.3	7.0
NW	1.1	5.9	1.1	.0	.0	.0		8.1	7.1		4.5	8.5	7.4	8.3	.8	6.0	8.8	13.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.3							4.3	.0		9.1	5.7	2.5	2.6	.0	6.5	4.4	5.0
TOT OBS	115	429	158	16	0	0	718		8.2		22	106	122	114	33	108	113	100
TOT PCT	16.0	59.7	22.0	2.2	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	06	12	18	21
N	7.9	5.8	.3	.0	.0			14.0	6.7	15.2	12.9	17.4	12.2	
NE	6.4	4.4	.3	.0	.0			11.2	6.8	9.4	12.7	15.8	7.5	
E	7.7	10.0	1.5	.1	.0			19.3	8.8	21.1	21.6	17.0	17.3	
SE	8.1	17.3	5.1	.2	.0			30.7	10.6	33.8	35.6	27.0	25.8	
S	4.4	2.6	.8	.0	.0			7.8	7.9	4.9	4.2	10.3	12.0	
SW	1.0	.8	.1	.0	.0			2.0	7.2	.0	1.1	2.8	3.6	
W	1.5	1.1	.0	.0	.0			2.6	6.8	1.6	1.5	.0	6.1	
NW	4.4	3.5	.3	.0	.0			8.1	7.1	7.8	7.8	4.8	10.8	
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
CALM	4.3							4.3	.0	6.3	2.5	5.0	4.7	
TOT OBS	328	327	61	2	0	718			8.2	128	236	141	213	
TOT PCT	45.7	45.5	8.5	.3	.0			100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1918-1971
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	6.3	16.4	53.9	22.7	.8	.0	.0	7.6	100.0	128
06009	2.5	9.7	63.6	22.5	1.7	.0	.0	8.6	100.0	236
12015	5.0	9.2	59.6	22.0	4.3	.0	.0	8.5	100.0	141
18021	4.7	12.7	59.2	21.1	2.3	.0	.0	7.8	100.0	213
TOT	91	84	429	198	16	0	0	8.2		718
PCT	4.3	11.7	59.7	22.0	2.2	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	1.6	.9	2.6	.7		4.0
NE	8.9	1.9	2.1	1.2		2.6
E	4.2	4.4	3.5	8.2		5.2
SE	6.8	9.1	20.8	8.6		5.0
S	.9	1.4	.9	1.9		5.5
SW	2.8	.0	.0	.0		1.3
W	.0	.9	.0	.0		3.0
NW	.9	.0	.9	.0		3.0
VAR	.0	.0	.0	.0		.0
CALM	1.9	1.9	.0	.0		2.7
TOT OBS	30	22	33	22	107	4.4
TOT PCT	28.0	20.6	30.8	20.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.9	.0	.7	.0	.0	.0	4.2	
NE	.0	.0	.0	1.9	.0	.0	1.2	.0	.0	.0	11.0	
E	.0	.0	.0	2.3	1.9	.9	.0	.0	.0	.0	14.5	
SE	.0	.0	.0	5.1	5.6	.9	.9	.0	.0	.0	32.5	
S	.0	.0	.0	.9	1.9	.0	.0	.0	.0	.0	2.3	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	
NW	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	0	0	0	11	11	2	3	1	0	0	3.7	107
TOT PCT	.0	.0	.0	10.3	10.3	1.9	2.8	.9	.0	.9	72.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>90YD	>0
>6500	.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8
>5000	1.8	2.7	2.7	2.7	2.7	2.7	2.7	2.7
>3500	4.4	5.3	5.3	5.3	5.3	5.3	5.3	5.3
>2000	6.2	7.1	7.1	7.1	7.1	7.1	7.1	7.1
>1000	11.5	17.7	17.7	17.7	17.7	17.7	17.7	17.7
>600	13.3	24.8	25.7	27.4	27.4	27.4	27.4	27.4
>300	13.3	24.8	25.7	27.4	27.4	27.4	27.4	27.4
>150	13.3	24.8	25.7	27.4	27.4	27.4	27.4	27.4
>0	13.3	24.8	25.7	27.4	27.4	27.4	27.4	27.4
TOTAL	15	28	29	31	31	31	31	31

TOTAL NUMBER OF OBS: 113

PCT FREQ NH <5/8: 72.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBS	TOTAL OBS
8.3	19.7	18.2	12.9	11.4	3.0	7.6	4.5	14.4	.0	132

PERIOD: (PRIMARY) 1918-1971
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1/2<1	PCP	.0	.2	.0	.5	.4	.1	.0	.0	.0	.0	1.2		
	NO PCP	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5		
	TOT %	.0	.2	.0	1.0	.4	.1	.0	.0	.0	.0	1.7		
1<2	PCP	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.5		
	NO PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.5		
	TOT %	.2	.0	.0	.2	.2	.0	.0	.0	.0	.0	1.0		
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	NO PCP	.0	.1	.4	.6	.6	.1	.0	.0	.0	.0	1.7		
	TOT %	.0	.1	.4	.6	.6	.1	.0	.0	.0	.0	1.7		
5<10	PCP	.9	1.2	1.8	4.4	1.6	.0	.5	.5	.0	.0	10.8		
	NO PCP	5.3	3.8	10.2	14.8	5.2	1.1	1.0	2.6	.0	1.0	45.0		
	TOT %	6.1	5.0	12.0	19.2	6.8	1.1	1.5	3.1	.0	1.0	55.8		
10+	PCP	.2	.2	.2	.7	.0	.0	.0	.1	.0	.0	1.5		
	NO PCP	4.0	5.8	8.2	13.1	1.4	1.0	1.4	2.2	.0	1.2	38.3		
	TOT %	4.2	6.1	8.5	13.9	1.4	1.0	1.4	2.3	.0	1.2	39.8		
TOT OBS														407
TOT PCT														100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1/2<1	0-3	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.4		
	4-10	.0	.0	.0	.4	.2	.0	.0	.0	.0	.0	.5		
	11-21	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.4		
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2		
	TOT %	.0	.2	.1	.8	.3	.1	.0	.0	.0	.0	1.4		
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2		
	4-10	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.5		
	11-21	.0	.1	.1	.4	.2	.0	.0	.0	.0	.0	.7		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.2	.1	.1	.7	.2	.0	.0	.0	.0	.2	1.4		
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.4	.4	.5	.4	.4	*	.0	.3	.0	.0	2.5		
	11-21	.3	.1	.4	.7	.1	.0	.0	.1	.0	.0	1.6		
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0		
	TOT %	.7	.4	.9	1.1	.5	*	.0	.4	.0	.0	4.0		
5<10	0-3	1.3	.4	1.1	1.3	1.4	.6	.4	.4	.0	1.2	8.2		
	4-10	3.3	2.7	6.7	7.7	2.9	.6	.8	1.8	.0	.0	26.6		
	11-21	.5	.7	1.9	5.5	.8	.1	.1	.4	.0	.0	10.0		
	22+	.0	.0	.0	.9	.4	.0	.0	.0	.0	.0	1.2		
	TOT %	5.2	3.9	9.8	15.3	5.5	1.3	1.3	2.6	.0	1.2	46.1		
10+	0-3	1.3	1.3	.5	.4	.4	.0	.2	.6	.0	2.6	7.2		
	4-10	5.4	5.3	6.2	6.7	1.4	.8	.8	2.8	.0	.0	29.2		
	11-21	.3	.2	2.1	6.5	.7	.0	.4	.3	.0	.0	10.3		
	22+	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.4		
	TOT %	6.9	6.7	8.8	13.7	2.4	1.0	1.3	3.6	.0	2.6	47.1		
TOT OBS														571
TOT PCT														100.0

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PERIOD: (PRIMARY) 1918-1971
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	12.0	16.0	4.0	4.0	4.0	.0	4.0	44.0	56.0	25
06009	.0	.0	.0	11.4	5.7	2.9	.0	.0	.0	.0	20.0	80.0	35
12015	.0	.0	.0	5.4	8.1	.0	2.7	.0	.0	.0	16.2	83.8	37
18021	.0	.0	.0	7.4	11.1	.0	3.7	.0	.0	3.7	25.9	74.1	27
TOT	0	0	0	11	12	2	3	1	0	2	31	93	124
PCT	.0	.0	.0	8.9	9.7	1.6	2.4	.8	.0	1.6	25.0	75.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.9	2.8	1.9	39.6	54.7	106
06009	.0	1.0	.0	5.1	49.0	44.9	196
12015	.0	1.5	.8	3.8	45.4	48.5	100
18021	.0	1.7	2.2	3.4	55.3	37.4	179
TOT	0	8	8	23	296	276	611
PCT	.0	1.3	1.3	3.8	48.4	45.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	13.0	34.8	52.2	23
06009	.0	.0	12.5	9.4	78.1	32
12015	.0	.0	5.9	11.8	82.4	34
18021	.0	.0	8.3	20.8	70.8	24
TOT	0	0	11	20	82	113
PCT	.0	.0	9.7	17.7	72.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.4	.4	.0	2	.8
85/89	.0	.0	.4	.8	2.0	6.0	5.6	.4	38	15.2
80/84	.0	.0	.0	.0	8.0	32.4	27.6	3.2	178	71.2
75/79	.0	.0	.0	.0	1.2	1.2	5.6	4.8	32	12.8
TOTAL	0	0	1	2	28	100	98	21	250	100.0
PCT	.0	.0	.4	.8	11.2	40.0	39.2	8.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.1	.7	.0	.0	.0	.0	.0	.0	.0
85/89	3.7	1.9	4.2	3.2	1.0	.0	.4	.4	.0	.4
80/84	6.3	9.0	18.3	24.7	3.1	2.2	3.0	3.4	.0	3.2
75/79	.7	.0	2.1	3.9	1.2	.6	.6	1.7	.0	.0
TOTAL	10.7	11.0	23.3	33.8	5.3	2.8	4.0	5.5	.0	3.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	91	89	87	83	77	75	74	82.7	131
06009	91	90	87	82	78	75	71	82.5	242
12015	87	86	84	82	78	75	74	81.2	153
18021	87	85	84	81	77	76	74	80.7	223
TOT	91	89	86	82	77	75	71	81.8	749

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.5	7.3	41.8	36.4	9.1	77	55
06009	.0	2.5	16.3	40.0	36.3	5.0	77	80
12015	.0	.0	7.7	40.0	41.5	10.8	80	65
18021	.0	.0	8.9	35.4	45.6	10.1	80	79
TOT	0	5	29	109	112	24	79	279

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TABLE 17

AREA 0002 CAIRNS
17.05 146.0EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	.3	1	.0	.3
7/8	.0	.0	.0	.0	.3	1	.0	.3
6	.0	.0	.0	.3	.0	1	.0	.3
5	.0	.0	.5	.3	1.3	8	.0	2.1
4	.0	.3	.8	1.0	.0	8	.0	2.1
3	.0	.0	.8	2.9	.3	15	.0	3.9
2	.0	.5	4.5	1.8	.0	26	.0	6.8
1	.0	1.0	8.9	2.6	.0	48	.0	12.6
0	.0	2.1	18.4	1.8	.0	85	.5	21.8
-1	.0	4.7	13.4	.3	.0	70	.5	17.8
-2	.0	5.8	11.5	.0	.0	66	.8	16.5
-3	.0	1.6	2.6	.0	.0	16	.0	4.2
-4	.3	3.7	.8	.0	.0	18	.3	4.5
-5	.0	1.8	.3	.0	.0	8	.0	2.1
-6	.0	1.0	.0	.0	.0	4	.0	1.0
-7/-8	.5	.5	.3	.0	.0	5	.0	1.3
-9/-10	.3	.0	.0	.0	.0	1	.0	.3
TOTAL	4		239		8	381	8	373
PCT	1.0	23.1	62.7	11.0	2.1	100.0	2.1	97.9

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	4.1	.0	.0	.0	.0	4.1	.0	3.5	.0	.0	.0	.0	3.5
1-2	.8	.8	.0	.0	.0	.0	1.6	.3	4.6	1.1	.0	.0	.0	6.0
3-4	.0	.0	1.1	.0	.0	.0	1.1	.0	2.2	.0	.0	.0	.0	2.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.9	1.1	.0	.0	.0	6.8	.3	10.3	1.1	.0	.0	.0	11.7

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	3.5	.0	.0	.0	.0	3.5	.0	2.2	1.1	.0	.0	.0	3.3
1-2	.0	4.1	2.2	.0	.0	.0	6.3	.0	11.1	6.8	.0	.0	.0	17.9
3-4	.0	.0	2.7	.0	.0	.0	2.7	.0	4.3	12.5	1.1	.0	.0	17.9
5-6	.0	.0	4.9	.0	.0	.0	4.9	.0	.0	9.2	.0	.0	.0	9.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.6	9.8	.0	.0	.0	17.4	.0	17.7	30.7	1.1	.0	.0	49.5

PERIOD: (OVER-ALL) 1963-1971

JANUARY

AREA 0002 CAIRNS
17.05 146.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.1	.8	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	1.9	.0	.0	.0	1.9	.0	1.1	.0	.0	.0	.0	.0	1.1
3-4	.0	.0	2.2	.0	.0	.0	2.2	.0	1.1	.0	.0	.0	.0	.0	1.1
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	.8	4.1	.0	.0	.0	6.0	.0	2.2	.0	1.1	.0	.0	.0	3.3

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	1.1	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.1	.0	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	1.1	96.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.3	14.6	1.0	.0	.0	.0	22.9	
1-2	1.0	22.9	11.5	.0	.0	.0	35.4	
3-4	.0	7.3	17.7	1.0	.0	.0	26.0	
5-6	.0	.0	13.5	.0	.0	.0	13.5	
7	.0	.0	1.0	.0	.0	.0	1.0	
8-9	.0	.0	.0	1.0	.0	.0	1.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.3	44.8	44.8	2.1	.0	.0	100.0	96

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	10.5	27.2	18.4	7.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73
6-7	.0	.0	7.9	9.6	1.8	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23
8-9	.0	.0	1.8	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	8.8	.9	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15
TOTAL	22	32	36	19	3	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114
PCT	19.3	24.1	31.6	16.7	2.6	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1922-1969
(OVER-ALL) 1883-1969AREA 0002 CAIRNS
17.25 146.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LYNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.3	.0	.0	.0	.0	.0	.0	1.3	2.6	9.6	6.4	.0	2.6	.0	77.6
NE	2.0	12.2	.0	.0	.0	.0	.0	14.3	4.1	13.3	.0	.0	.0	.0	68.4
E	8.4	12.6	.0	.0	.0	.0	.0	20.9	.0	5.0	1.7	.0	3.3	.0	69.0
SE	10.1	16.9	.0	.0	.0	.0	.0	27.0	.9	.0	1.4	.0	.9	.0	69.7
S	12.9	11.0	.0	.0	.0	.0	.0	23.9	2.5	.0	1.2	.0	.0	.0	72.4
SW	6.7	6.7	.0	.0	.0	.0	.0	13.3	.0	.0	.0	.0	.0	.0	86.7
W	6.7	13.3	.0	.0	.0	.0	.0	20.0	.0	13.3	.0	.0	.0	.0	66.7
NW	1.9	.0	.0	.0	.0	.0	.0	1.9	.0	.0	1.9	.0	.0	.0	96.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.8	5.9	.0	.0	.0	.0	.0	17.6	.0	.0	.0	.0	.0	.0	82.4
TOT PCT	7.7	10.7	.0	.0	.0	.0	.0	18.4	1.2	3.3	1.8	.0	1.2	.0	74.2
TOT OBS:	337														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LYNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.7	7.4	.0	.0	.0	.0	.0	11.1	.0	.0	2.5	.0	1.2	.0	85.2
06009	7.8	11.8	.0	.0	.0	.0	.0	19.6	1.0	.0	1.0	.0	1.0	.0	77.5
12015	7.8	12.5	.0	.0	.0	.0	.0	20.3	4.7	9.4	1.6	.0	1.6	.0	62.5
18021	10.3	12.4	.0	.0	.0	.0	.0	22.7	.0	5.2	2.1	.0	1.0	.0	69.1
TOT PCT	7.6	11.0	.0	.0	.0	.0	.0	18.6	1.2	3.2	1.7	.0	1.2	.0	74.1
TOT OBS:	344														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	2.7	7.1	2.3	.0	.0	.0		12.1	6.7	8.0	10.2	18.5	11.2	20.0	11.3	12.0	6.9	
NE	1.0	6.7	.9	.0	.0	.0		8.5	7.1	12.0	7.5	14.7	9.6	15.8	4.9	4.9	4.1	
E	2.5	13.9	4.7	.3	.2	.0		21.0	8.4	4.0	18.5	26.4	23.0	22.5	21.1	26.8	14.7	
SE	2.0	14.6	10.1	1.5	.0	.0		28.2	10.6	27.0	28.8	28.0	33.7	10.8	36.6	26.1	22.8	
S	1.9	6.4	2.3	.0	.0	.0		10.2	8.0	27.0	11.8	9.5	4.5	3.3	7.7	10.9	20.9	
SW	1.4	2.4	.2	.0	.0	.0		3.9	4.9	18.0	4.3	1.6	4.5	.0	.7	2.1	6.9	
W	.3	1.6	.6	.0	.0	.0		2.5	8.1	.0	2.7	.5	.6	3.3	1.4	3.9	6.6	
NW	1.7	5.8	.6	.0	.0	.0		8.1	5.9	.0	7.5	4.3	8.4	7.5	10.6	10.6	10.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	5.6							5.6	.0	4.0	8.6	2.2	4.5	16.7	5.6	2.8	6.3	
TOT OBS	102	322	116	10	1	0	551		7.8	25	93	92	89	30	71	71	80	
TOT PCT	18.5	58.4	21.1	1.8	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	7.3	4.6	.2	.0	.0			12.1	6.7	9.7	14.9	13.9	9.3	
NE	4.5	3.8	.3	.0	.0			8.5	7.1	8.5	12.2	8.2	4.5	
E	9.7	9.5	1.5	.3	.0			21.0	8.4	15.5	24.9	21.5	20.4	
SE	7.6	15.9	4.6	.1	.0			28.2	10.6	28.4	30.8	29.0	24.3	
S	4.3	5.3	.6	.0	.0			10.2	8.0	18.0	4.0	6.4	18.2	
SW	2.9	1.0	.0	.0	.0			3.9	4.9	7.2	3.0	.5	4.6	
W	1.2	1.0	.2	.0	.0			2.5	8.1	2.1	.6	2.0	5.3	
NW	5.7	2.3	.1	.0	.0			8.1	5.9	5.9	6.4	9.7	10.8	
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
CALM	5.6							5.6	.0	7.6	3.3	8.9	4.6	
TOT OBS	289	239	41	2	0	551			7.8	118	181	101	151	
TOT PCT	48.8	43.4	7.4	.4	.0			100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1927-1969
(OVER-ALL) 1889-1969

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00&03	7.6	16.9	51.7	22.0	.8	.8	.0	7.7	100.0	118
06&09	3.3	9.9	66.9	19.6	3.3	.0	.0	7.9	100.0	181
12&15	8.9	12.9	55.4	21.8	1.0	.0	.0	7.6	100.0	101
18&21	4.6	13.2	55.6	25.2	1.3	.0	.0	8.0	100.0	151
TOT	31	71	322	116	10	1	0	7.8		551
PCT	5.6	12.9	58.4	21.1	1.8	.2	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.5	5.8	5.9	.0		3.8
NE	1.5	2.8	10.5	.0		5.2
E	3.5	8.0	6.9	2.0		4.2
SE	5.8	5.0	10.0	2.0		4.4
S	1.5	4.0	3.3	2.0		4.9
SW	1.3	1.5	2.0	.0		4.2
W	.0	.0	1.0	.0		7.0
NW	3.0	.0	2.3	.0		2.5
VAR	.0	.0	.0	.0		.0
CALM	1.0	1.0	2.0	1.0		4.6
TOT OBS	22	28	43	7	100	4.4
TOT PCT	22.0	28.0	43.0	7.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3999	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	13.5
NE	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	10.8
E	.0	.0	.0	1.0	1.0	.0	1.0	.0	.0	.0	.0	17.3
SE	.0	.0	2.0	.0	3.0	1.0	1.0	.0	.0	.0	.0	15.8
S	.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	8.8
SW	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	3.8
W	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	4.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	3.0
TOT OBS	22	28	43	7	100	1	1	1	1	1	1	77
TOT PCT	.0	.0	2.0	4.0	9.0	6.0	1.0	1.0	.0	.0	.0	77.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
>OR >5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>OR >3500	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
>OR >2000	6.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
>OR >1000	15.3	16.3	16.3	16.3	16.3	16.3	16.3	16.3
>OR >600	16.3	19.4	20.4	20.4	20.4	20.4	20.4	20.4
>OR >400	17.3	21.4	22.4	22.4	22.4	22.4	22.4	22.4
>OR >150	17.3	21.4	22.4	22.4	22.4	22.4	22.4	22.4
>OR >0	17.3	21.4	22.4	22.4	22.4	22.4	22.4	22.4
TOTAL	17	21	22	22	22	22	22	22

TOTAL NUMBER OF OBS: 98

PCT FREQ NH <5/8: 77.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.3	16.4	22.7	18.2	11.8	7.3	6.4	4.5	5.5	.0	110

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PERIOD: (PRIMARY) 1922-1969
(OVER-ALL) 1883-1969AREA 0002 CAIRNS
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.6	
	NO PCP	.7	.0	.0	.0	.0	.0	.0	.1	.0	.0	.9	
	TOT %	.7	.0	.0	.3	.3	.0	.0	.1	.0	.0	1.5	
1<2	PCP	.0	.0	.6	1.0	.1	.0	.1	.1	.0	.0	2.1	
	NO PCP	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.9	1.3	.1	.0	.1	.1	.0	.0	2.7	
2<5	PCP	.0	.3	.3	.6	.0	.0	.0	.0	.0	.3	1.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.3	.3	.6	.0	.0	.0	.0	.0	.3	1.5	
5<10	PCP	.1	.4	2.2	6.0	1.6	.6	.0	.0	.0	.3	11.3	
	NO PCP	3.1	1.5	4.3	9.0	1.6	.0	.4	3.3	.0	.6	23.8	
	TOT %	3.3	1.9	6.5	15.0	3.2	.6	.4	3.3	.0	.9	35.1	
10+	PCP	.0	.3	.6	.7	.8	.0	.6	.0	.0	.3	3.3	
	NO PCP	7.6	4.5	9.4	13.8	7.7	3.9	1.0	4.5	.0	3.6	56.0	
	TOT %	7.6	4.8	10.0	14.5	8.5	3.9	1.6	4.5	.0	3.9	59.2	
TOT OBS													336
TOT PCT		11.6	7.0	17.8	31.7	12.1	4.5	2.2	8.0	.0	9.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.3	.0	.0	.2	.2	.0	.0	.1	.0	.0	.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	.0	.0	.2	.2	.0	.0	.1	.0	.0	1.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.2	.0	.0	.1	.1	.0	.0	.7	
	11-21	.0	.0	.5	.8	.1	.0	.0	.0	.0	.0	1.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.7	1.0	.1	.0	.1	.1	.0	.0	2.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.2	.2	.0	.1	.1	.0	.0	.0	.7	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.2	.2	.5	.0	.1	.1	.0	.0	.2	1.4	
5<10	0-3	.5	.7	.8	.3	.0	.0	.0	.5	.0	.7	3.5	
	4-10	1.3	.6	3.7	5.8	1.3	.5	.3	2.0	.0	.0	15.5	
	11-21	1.2	.3	.9	5.0	1.5	.0	.0	.1	.0	.0	9.0	
	22+	.0	.0	.5	1.6	.0	.0	.0	.0	.0	.0	2.1	
	TOT %	2.9	1.6	5.9	12.8	2.8	.5	.3	2.5	.0	.7	30.0	
10+	0-3	1.8	.3	1.8	1.7	1.3	1.7	.3	1.1	.0	3.9	14.1	
	4-10	5.5	4.6	9.2	8.6	5.5	2.5	.5	3.0	.0	.0	39.5	
	11-21	1.4	.6	2.2	5.4	.8	.0	.6	.5	.0	.0	11.5	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	8.8	5.4	13.3	15.9	7.6	4.3	1.5	4.6	.0	3.9	65.4	
TOT OBS													433
TOT PCT		12.2	7.3	20.2	30.4	10.8	4.8	2.1	7.4	.0	4.8	100.0	

PERIOD: (PRIMARY) 1922-1969
(OVER-ALL) 1883-1969

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	4.0	.0	16.0	4.0	4.0	.0	.0	.0	28.0	72.0	25
06009	.0	.0	.0	.0	5.9	2.9	.0	.0	.0	.0	8.8	91.2	34
12015	.0	.0	.0	10.7	7.1	14.3	.0	.0	.0	.0	32.1	67.9	28
18021	.0	.0	5.0	5.0	5.0	.0	.0	5.0	.0	.0	20.0	80.0	20
TOT	0	0	2	4	9	6	1	1	0	0	23	84	107
PCT	.0	.0	1.9	3.7	8.4	5.6	.9	.9	.0	.0	21.5	76.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	3.2	2.1	.0	20.2	74.5	94
06009	.0	.7	2.1	2.8	31.7	62.8	145
12015	.0	1.2	2.4	1.2	31.3	63.9	83
18021	.0	.0	1.7	.8	38.1	59.3	118
TOT	0	5	9	6	136	284	440
PCT	.0	1.1	2.0	1.4	30.9	64.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	4.2	4.2	25.0	70.8	24
06009	.0	.0	3.1	9.4	87.5	32
12015	.0	.0	12.0	20.0	68.0	25
18021	.0	5.9	11.8	11.8	76.5	17
TOT	0	2	7	16	75	98
PCT	.0	2.0	7.1	16.3	76.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.7	2.2	.4	.4	10	3.7
85/89	.0	.0	.0	.7	1.5	7.0	4.8	1.5	42	15.6
80/84	.0	.0	.0	.0	2.6	24.4	21.5	15.2	172	63.7
75/79	.0	.0	.0	.0	.4	2.2	2.2	12.2	46	17.0
TOTAL	0	0	0	2	14	97	78	79	270	100.0
PCT	.0	.0	.0	.7	5.2	35.9	28.9	29.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
.4	.0	1.2	.6	1.1	.4	.0	.0	.0	.0	.0
3.2	.6	1.3	3.3	2.3	.7	.5	2.1	.0	1.5	.0
6.1	6.8	13.9	20.3	4.3	3.0	1.4	5.1	.0	3.0	.0
1.1	1.1	3.0	5.6	3.3	1.1	.4	.0	.0	1.5	.0
10.8	8.4	19.4	29.8	11.0	5.2	2.2	7.2	.0	5.9	.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	92	91	90	83	79	76	76	83.3	113
06009	92	91	87	83	77	75	74	82.5	176
12015	87	86	84	81	77	75	75	81.2	100
18021	90	88	84	81	76	75	73	80.4	149
TOT	92	90	87	82	77	75	73	81.0	538

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.6	8.1	43.5	29.0	17.7	80	62
06009	.0	1.2	6.0	29.8	35.7	27.4	83	34
12015	.0	.0	4.2	43.8	33.3	18.8	82	48
18021	.0	.0	3.6	30.1	20.5	45.8	86	93
TOT	0	2	15	98	81	81	83	277

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 PERIOD: (PRIMARY) 1922-1969
 (OVER-ALL) 1889-1969

TABLE 17

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 PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
 VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	NO FOG
9/10	.0	.0	.0	.0	.4	1	.0	.4
7/8	.0	.0	.4	.4	1.7	6	.0	2.5
6	.0	.0	.0	.0	.4	1	.0	.4
5	.0	1.3	.8	.4	1.3	9	.0	3.8
4	.0	.0	.8	2.5	.4	9	.4	3.3
3	.0	.0	.0	1.7	.0	4	.0	1.7
2	.0	.0	5.0	3.8	.0	21	.0	8.8
1	.0	1.7	8.8	2.5	.0	31	1.3	11.7
0	.0	2.5	15.5	2.1	.0	48	.4	19.7
-1	.4	3.8	11.7	.4	.0	39	.0	16.3
-2	.4	5.4	6.3	.4	.0	30	.0	12.6
-3	.4	4.2	2.5	.0	.0	17	.0	7.1
-4	.0	1.7	2.1	.4	.0	10	.0	4.2
-5	.0	1.7	.0	.0	.0	4	.0	1.7
-6	.0	.8	.4	.0	.0	3	.0	1.3
-7/-8	.4	.8	.4	.0	.0	4	.0	1.7
-9/-10	.4	.4	.0	.0	.0	2	.0	.8
TOTAL	5	58	131	35	10	239	5	234
PCT	2.1	24.3	54.8	14.6	4.2	100.0	2.1	97.9

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.6	1.6	.0	.0	.0	.0	3.2	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	9.3	1.6	.0	.0	.0	10.9	.0	10.1	1.6	.0	.0	.0	11.7
3-4	.0	.0	1.6	.0	.0	.0	1.6	.0	.0	1.6	.0	.0	.0	1.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	10.9	3.2	.0	.0	.0	15.7	.0	11.7	3.2	.0	.0	.0	14.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	2.8	.0	.0	.0	.0	4.0	.4	2.0	.0	.0	.0	.0	2.4
1-2	.0	8.9	3.2	.0	.0	.0	12.1	.0	10.5	2.0	.0	.0	.0	12.5
3-4	.0	.0	3.2	.0	.0	.0	3.2	.0	.4	4.8	.0	.0	.0	5.2
5-6	.0	.0	3.2	.0	.0	.0	3.2	.0	.0	3.2	.0	.0	.0	3.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	1.6	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	11.7	11.3	.0	.0	.0	24.2	.4	12.9	10.1	.0	.0	.0	23.4

PERIOD: (OVER-ALL) 1963-1969

FEBRUARY

AREA 0002 CAIRNS

TABLE 18 (CONT)

17.25 146.0F

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.2	.0	.0	.0	.0	1.2	.0	2.0	.0	.0	.0	.0	2.0
1-2	.0	1.2	2.8	.0	.0	.0	4.0	.0	2.4	.0	.0	.0	.0	2.4
3-4	.0	1.2	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
5-6	.0	1.6	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.2	2.8	.0	.0	.0	8.1	.0	4.4	.0	.0	.0	.0	4.4

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	1.6	
1-2	.0	1.2	.0	.0	.0	.0	1.2	.0	1.6	.0	.0	.0	.0	1.6	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	1.6	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.2	.0	.0	.0	.0	1.2	.0	3.2	1.6	.0	.0	.0	4.8	96.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.5	12.9	.0	.0	.0	.0	19.4	
1-2	.0	45.2	11.3	.0	.0	.0	56.5	
3-4	.0	1.6	12.9	.0	.0	.0	14.5	
5-6	.0	1.6	6.5	.0	.0	.0	8.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	1.6	.0	.0	.0	1.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.5	61.3	32.3	.0	.0	.0	100.0	62

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<6	6-7	8-9	10-11	12-13	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	16.7	45.1	14.7	2.9	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	87	2
6-7	.0	2.9	2.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	3
8-9	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	10.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	7
TOTAL	28	49	17	6	0	1	1	0	0	0	0	0	0	0	0	0	102	2
PCT	27.5	48.0	16.7	5.9	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1924-1969
(OVER-ALL) 1882-1969

MARCH

AREA 0002 CAIRNS
17.25 146.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG PCPN PAST HR	WU HAZE	SMOKE BLWG DUST	SPRAY BLWG SNOW	NO SIG WEA
N	6.8	.0	.0	.0	.0	.0	.0	6.8	.0	.0	.0	.0	.0	.0	.0	93.2
NE	12.3	11.3	3.8	.0	.0	.0	.0	27.4	3.8	3.8	.0	.0	.0	.0	.0	65.1
E	7.7	11.3	.0	.0	.0	.0	.0	19.1	4.1	.0	.0	.0	.0	.0	.0	76.8
SE	9.6	15.3	.6	.0	.0	.0	.0	25.4	3.9	.0	.0	.0	.0	.0	.0	69.6
S	16.7	5.7	.0	.0	.0	.0	.0	22.4	1.6	4.5	.0	.0	.0	.0	.0	73.2
SW	8.3	13.9	5.6	.0	.0	.0	.0	27.8	.0	1.4	.0	.0	.0	.0	.0	70.8
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	80.0
NW	14.3	.0	.0	.0	.0	.0	.0	14.3	7.1	1.8	.0	.0	7.1	.0	.0	69.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0	83.3
TOT PCT	10.5	11.3	.8	.0	.0	.0	.0	22.5	3.5	1.3	.0	.0	.0	.8	.0	72.1
TOT OBS:	373															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WO PCPN	FGD WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
00003	7.1	9.4	1.2	.0	.0	.0	.0	17.6	3.5	.0	.0	.0	.0	.0	78.8	
06009	13.0	8.3	.9	.0	.0	.0	.0	22.2	3.7	.0	.0	.0	.9	.0	73.1	
12015	11.8	13.2	1.5	.0	.0	.0	.0	26.5	2.9	2.9	.0	.0	1.5	.0	66.2	
18021	10.3	13.7	.0	.0	.0	.0	.0	23.9	3.4	2.6	.0	.0	.9	.0	70.1	
TOT PCT TOT OBS:	10.6 378	11.1	.8	.0	.0	.0	.0	22.5	3.4	1.3	.0	.0	.8	.0	72.2	

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND SPEED (KNOTS)																	HOUR (GMT)						
WIND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21						
N	.5	4.5	.5	.0	.0	.0		5.5	6.4	2.6	6.4	5.0	6.5	4.6	5.7	4.8	5.7						
NE	.5	3.9	.9	.2	.0	.0		5.5	7.8	.0	4.1	6.4	4.4	16.4	5.7	3.5	6.7						
E	.7	9.1	3.3	.1	.0	.0		13.2	9.4	6.0	8.7	16.8	14.7	18.4	11.4	17.0	10.3						
SE	2.6	23.9	20.1	2.8	.0	.0		49.4	11.2	30.0	45.4	57.7	46.5	45.4	53.8	50.3	45.4						
S	1.2	8.4	4.7	.3	.2	.0		14.8	9.6	16.4	21.6	8.7	14.0	10.5	14.6	12.3	18.3						
SW	1.1	1.9	.4	.0	.0	.0		3.4	5.5	6.9	5.0	.0	5.4	1.3	.6	2.0	6.4						
W	.2	.7	.0	.0	.0	.0		.9	6.9	.0	1.8	.0	.0	.0	.0	.0	3.3						
NW	1.3	2.7	.5	.0	.0	.0		4.5	5.9	11.2	3.2	1.5	4.7	.7	5.7	6.0	5.7						
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0						
CALM	2.9							2.9	.1	6.9	3.7	4.0	3.7	2.6	2.5	1.0	1.0						
TOT OBS	73	363	201	22	1	0	660		9.5	29	109	101	107	38	79	100	97						
TOT PCT	11.1	55.0	30.5	3.3	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0						

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	3.4	2.1	.0	.0	.0		5.5	6.4	5.6	5.8	5.3	5.2
NE	3.0	2.3	.2	.0	.0		5.5	7.8	3.3	5.4	9.2	5.1
E	3.7	8.0	1.5	.0	.0		13.2	9.4	8.2	15.7	13.7	13.7
SE	11.1	28.6	8.5	.3	.0		49.4	11.2	46.4	51.9	51.1	47.8
S	6.1	6.4	1.9	.0	.0		14.8	9.6	20.5	11.4	13.1	15.2
SW	2.5	.9	.0	.0	.0		3.4	5.5	5.4	2.8	.9	4.2
W	.3	.6	.0	.0	.0		.9	6.9	1.4	.0	.0	1.9
NW	3.0	1.5	.0	.0	.0		4.5	5.9	4.9	3.1	4.1	5.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.9						2.9	.1	4.3	3.8	2.6	1.0
TOT OBS	240	333	80	7	0	660		9.5	138	208	117	197
TOT PCT	36.4	50.5	12.1	1.1	.0				100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1924-1969
(OVER-ALL) 1887-1969AREA 0002 CAIRNS
17.25 146.0F

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
0000Z	4.3	8.7	53.6	31.2	2.2	.0	.0	8.9	100.0	138
0600Z	3.8	8.2	56.7	27.4	3.4	.5	.0	9.4	100.0	205
1201Z	2.6	3.4	48.7	40.2	5.1	.0	.0	10.5	100.0	117
1802Z	1.0	10.7	57.9	27.4	3.0	.0	.0	9.4	100.0	197
TOT	19	44	363	201	22	1	0	9.5		660
PCT	2.9	8.2	55.0	30.5	3.3	.2	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
N	.6	.6	.4	.0		4.3
NE	1.7	3.4	3.4	.2		4.0
E	3.6	3.6	2.3	4.9		4.8
SE	8.1	14.2	16.5	14.0		5.2
S	1.9	3.4	3.2	2.8		5.0
SW	.8	.0	.8	.2		4.4
W	.8	.6	.0	.8		1.7
NW	1.1	.4	1.7	.8		5.3
VAR	.0	.0	.0	.0		.0
CALM	.8	.0	2.5	.0		4.2
TOT OBS	23	31	37	27	118	4.9
TOT PCT	19.5	26.3	31.4	22.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1
NE	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	6.8
E	.0	.0	.0	1.7	1.3	.0	.8	.8	.0	.0	.0	9.7
SE	.0	.0	1.7	5.9	14.2	1.7	.8	.0	.0	.0	.0	28.4
S	.0	.0	.0	.8	2.8	.0	.0	.0	.0	.0	.0	7.6
SW	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	1.7
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5
NW	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	2.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	2.5
TOT OBS	0	0	2	11	24	3	3	1	0	0	.0	74
TOT PCT	.0	.0	1.7	9.3	20.3	2.5	2.5	.8	.0	.0	.0	62.7

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	.0	.0	.0	.0	.0	.0	.0
>4000	.8	.8	.8	.8	.8	.8	.8	.8
>3500	2.5	3.4	3.4	3.4	3.4	3.4	3.4	3.4
>3000	5.1	5.9	5.9	5.9	5.9	5.9	5.9	5.9
>2000	16.9	23.7	23.7	25.4	25.4	25.4	25.4	25.4
>1000	20.3	32.2	33.1	34.7	34.7	34.7	34.7	34.7
>600	20.3	33.9	34.7	36.4	36.4	36.4	36.4	36.4
>150	20.3	33.9	34.7	36.4	36.4	36.4	36.4	36.4
>0	20.3	33.9	34.7	36.4	36.4	36.4	36.4	36.4
TOTAL	24	40	41	43	43	43	43	43

TOTAL NUMBER OF OBS: 118

PCT FREQ NH <5/8: 63.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
6.2	8.5	17.7	20.8	10.8	8.5	10.0	3.1	14.6	.0	130

MARCH

PERIOD: (PRIMARY) 1924-1969
(OVER-ALL) 1882-1969AREA 0002 CAIRNS
17.25 146.0F

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
1<2	PCP	.0	.0	.1	.9	.0	.3	.0	.3	.0	.0	1.6	
	NO PCP	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.0	.1	1.5	.0	.3	.0	.3	.0	.0	2.4	
2<5	PCP	.0	.4	.3	.7	.5	.3	.0	.0	.0	.0	2.2	
	NO PCP	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.4	.3	1.5	.5	.3	.0	.0	.0	.0	3.0	
5<10	PCP	.3	1.0	1.5	4.0	3.0	.5	.0	.3	.0	.0	15.6	
	NO PCP	.9	2.3	3.6	11.8	2.9	1.6	.5	.8	.0	.0	24.5	
	TOT %	1.2	3.3	5.1	20.8	5.8	2.2	.5	1.1	.0	.0	40.1	
10+	PCP	.0	.5	.5	1.6	.3	.0	.0	.0	.0	.0	3.0	
	NO PCP	2.8	2.9	7.0	22.6	9.9	1.9	.5	2.2	.0	1.6	51.3	
	TOT %	2.8	3.4	7.5	24.3	10.2	1.9	.5	2.2	.0	1.6	54.3	
TOT OBS													372
TOT PCT		4.0	7.1	13.0	48.1	16.5	4.8	1.0	3.8	.0	1.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.1	.2	.0	.0	.0	.0	.4	
1<2	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	4-10	.0	.0	.0	.4	.0	.0	.0	.4	.0	.0	.7	
	11-21	.0	.0	.1	1.5	.1	.0	.0	.0	.0	.0	1.7	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.1	1.9	.2	.2	.0	.4	.0	.0	2.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	1.2	.3	.2	.0	.0	.0	.0	1.7	
	11-21	.0	.1	.1	1.1	.6	.2	.0	.0	.0	.0	2.0	
	22+	.0	.2	.1	.5	.0	.0	.0	.0	.0	.0	.7	
	TOT %	.0	.3	.2	2.7	.9	.4	.0	.0	.0	.0	4.4	
5<10	0-3	.2	.2	.3	.5	.3	.5	.0	.0	.0	.4	2.2	
	4-10	.8	1.5	2.0	6.8	2.5	1.1	.4	1.1	.0	.0	16.2	
	11-21	.2	.7	1.9	8.0	1.8	.2	.0	.0	.0	.0	12.9	
	22+	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.9	
	TOT %	1.2	2.4	4.2	16.2	4.7	1.8	.4	1.1	.0	.4	32.3	
10+	0-3	.0	.1	.4	1.3	.9	.6	.2	1.1	.0	1.8	6.5	
	4-10	3.5	2.8	7.0	15.2	6.6	1.0	.3	1.4	.0	.0	37.8	
	11-21	.3	.4	1.0	10.9	2.7	.0	.0	.3	.0	.0	15.5	
	22+	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.4	
	TOT %	3.7	3.3	8.4	27.7	10.3	1.6	.5	2.8	.0	1.8	60.1	
TOT OBS													542
TOT PCT		4.9	5.9	12.9	48.7	16.1	4.1	.9	4.2	.0	2.2	100.0	

MARCH

PERIOD: (PRIMARY) 1924-1969
(OVER-ALL) 1887-1969

AREA 0002 CAIRNS
17.25 146.06

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	3.3	6.7	20.0	3.3	.0	3.3	.0	.0	36.7	63.3	30
06009	.0	.0	.0	12.5	12.5	3.1	9.4	.0	.0	.0	37.5	62.5	32
12015	.0	.0	2.8	5.6	25.0	2.8	.0	.0	.0	.0	36.1	63.9	36
18021	.0	.0	.0	10.3	17.2	.0	.0	.0	.0	.0	27.6	72.4	29
TOT	0	0	2	11	24	3	3	1	0	0	44	83	127
PCT	.0	.0	1.6	8.7	18.9	2.4	2.4	.8	.0	.0	34.6	65.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	1.9	2.8	21.3	74.1	108
06009	.0	.0	2.9	4.7	36.3	56.1	171
12015	.0	1.0	2.9	5.9	36.3	53.9	102
18021	.0	.6	3.0	4.2	33.1	59.0	166
TOT	0	2	15	24	177	329	547
PCT	.0	.4	2.7	4.4	32.4	60.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 4+	TOTAL OBS
00003	.0	3.7	11.1	25.9	63.0	27
06009	.0	.0	12.9	25.8	61.3	31
12015	.0	2.9	11.4	25.7	62.9	35
18021	.0	.0	16.0	16.0	68.0	25
TOT	0	2	15	28	75	118
PCT	.0	1.7	12.7	23.7	63.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.7	.0	.0	2	.7
85/89	.0	.0	.0	.4	1.9	1.5	.7	.0	12	4.5
80/84	.0	.0	.0	.7	6.3	22.8	26.5	8.6	174	64.9
75/79	.0	.0	.0	.0	1.1	7.5	7.8	10.8	72	27.2
70/74	.0	.0	.0	.0	.0	.0	.4	2.2	7	2.6
TOTAL	0	0	0	3	25	87	95	58	268	100.0
PCT	.0	.0	.0	1.1	9.3	32.5	35.4	21.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.7	.0	.0	.0	.0	.0	.0
.0	.4	.0	3.0	.7	.0	.0	.0	.0	.4
2.0	5.0	10.3	32.5	9.8	1.6	.3	2.4	.0	1.1
.4	.6	3.8	12.6	6.2	2.2	.4	1.1	.0	.7
.0	.4	.0	1.0	1.2	.0	.0	.0	.0	.0
2.3	6.3	14.1	49.8	17.9	3.8	.7	3.5	.0	1.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	88	87	82	77	73	72	81.8	131
06009	93	90	86	81	77	74	73	81.3	207
12015	83	82	82	80	75	72	72	79.8	117
18021	86	84	83	80	75	72	72	79.5	192
TOT	93	88	85	81	76	73	72	80.6	647

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	10.9	32.7	36.4	20.0	81	55
06009	.0	2.4	9.6	27.7	39.8	20.5	82	43
12015	.0	1.9	11.1	40.7	33.3	13.0	79	54
18021	.0	.0	6.3	31.6	30.4	31.6	84	79
TOT	0	3	25	88	95	60	82	271

PERIOD: (PRIMARY) 1924-1969
(OVER-ALL) 1882-1969

MARCH

AREA 0002 CAIRNS
17.25 146.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
7/8	.0	.0	.0	.7	.4	3	.0	1.1
6	.0	.0	.0	.7	.0	2	.0	.7
5	.0	.4	.0	.0	.4	2	.0	.7
4	.0	.7	1.1	.7	.0	7	.0	2.5
3	.0	.0	2.2	.7	.0	8	.0	2.9
2	.0	.4	9.4	2.2	.0	33	.0	11.9
1	.0	2.9	6.5	.7	.0	28	.0	10.1
0	.7	5.4	13.7	.7	.0	57	.0	20.6
-1	.0	8.3	9.4	.0	.0	49	.0	17.7
-2	.4	8.3	5.1	.0	.0	38	.0	13.7
-3	.4	2.2	2.2	.0	.0	13	.0	4.7
-4	.0	5.8	2.5	.0	.0	23	.0	8.3
-5	.7	1.8	1.4	.0	.0	11	.0	4.0
-6	.0	.7	.0	.0	.0	2	.0	.7
-9/-10	.4	.0	.0	.0	.0	1	.0	.4
TOTAL	7	102	148	18	2	277	0	277
PCT	2.5	36.8	53.4	6.5	.7	100.0		100.0

PERIOD: (OVER-ALL) 1943-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	2.2	.0	.0	.0	.0	2.2	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	.0	.0	.0	.0	.0	.0	.0	3.7	.3	.0	.0	.0	4.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.2	.0	.0	.0	2.5
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	6.2	1.5	.0	.0	.0	7.7
TOT PCT	.0	2.2	.0	.0	.0	.0	2.2	.0	6.2	1.5	.0	.0	.0	

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	2.2	.0	.0	.0	.0	2.2	.0	2.8	2.5	.0	.0	.0	5.2
1-2	.0	6.8	3.1	.0	.0	.0	9.9	1.2	7.1	8.6	.0	.0	.0	17.0
3-4	.0	4.6	3.7	.0	.0	.0	8.3	.0	7.7	7.4	3.7	.0	.0	18.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.2	6.8	1.2	.0	.0	9.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	1.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	13.6	6.8	.0	.0	.0	20.4	1.2	18.8	26.5	4.9	.0	.0	51.5

PERIOD: (OVER-ALL) 1963-1969

MARCH

AREA 0002 CAIRNS
17.25 146.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S								SW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.2	
1-2	.0	3.4	4.0	.0	.0	.0	7.4	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	2.2	.0	.0	.0	2.2	.0	1.2	.3	.0	.0	.0	1.5	
5-6	.0	.0	3.1	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.4	9.3	.0	.0	.0	12.7	.0	2.5	.3	.0	.0	.0	2.8	

W								NW								TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3		
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	1.2		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.2	.0	.0	.0	1.5	98.8	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.4	9.8	2.4	.0	.0	.0	14.6	
1-2	1.2	20.7	15.9	.0	.0	.0	37.8	
3-4	.0	14.6	14.6	3.7	.0	.0	32.9	
5-6	.0	1.2	9.8	1.2	.0	.0	12.2	
7	.0	.0	2.4	.0	.0	.0	2.4	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.7	46.3	45.1	4.9	.0	.0	100.0	82

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.5	27.4	17.1	6.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	2
6-7	.0	2.6	9.4	6.8	11.1	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	5
8-9	.0	.0	.9	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	6.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	0
TOTAL	17	36	32	16	14	1	0	0	1	0	0	0	0	0	0	0	0	0	0	117	3
PCT	14.5	30.8	27.4	13.7	12.0	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1882-1969

TABLE 1

AREA 0002 CAIRNS
17.25 146.0E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	.0	6.5	6.5	.0	.0	.0	.0	12.9	.0	.0	.0	.0	.0	.0	87.1
E	2.0	5.9	.0	.0	.0	.0	.0	7.8	.0	2.0	4.9	.0	.0	.0	85.3
SE	7.9	5.0	1.2	.0	.0	.0	.0	14.1	1.9	.6	3.6	.0	.6	.0	79.8
S	2.4	5.8	9.7	.0	.0	.0	.0	17.9	4.8	.0	9.2	.0	1.9	.0	66.2
SW	12.5	.0	.0	.0	.0	.0	.0	12.5	3.1	6.3	.0	.0	.0	.0	78.1
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	5.2	4.6	2.5	.0	.0	.0	.0	12.3	1.8	.9	4.0	.0	.6	.0	80.7
TOT OBS:	326														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	6.1	4.9	2.4	.0	.0	.0	.0	13.4	2.4	.0	2.4	.0	1.2	.0	80.5
06009	7.1	5.1	2.0	.0	.0	.0	.0	14.3	1.0	3.1	4.1	.0	1.0	.0	78.6
12015	6.3	.0	4.8	.0	.0	.0	.0	11.1	1.6	1.6	1.6	.0	.0	.0	84.1
18021	1.9	7.7	1.0	.0	.0	.0	.0	10.6	1.9	.0	5.8	.0	.0	.0	81.7
TOT PCT	5.2	4.9	2.3	.0	.0	.0	.0	12.4	1.7	1.2	3.7	.0	.6	.0	81.0
TOT OBS:	347														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	1.7	.0	.0	.0	.0		2.8	4.3		.0	3.1	2.2	2.3	.0	3.8	3.8	3.2
NE	1.9	2.7	.5	.0	.0	.0		5.1	5.4		1.0	2.0	5.9	12.2	1.0	5.8	4.1	2.9
E	1.2	10.1	4.2	.2	.0	.0		15.7	8.6		7.3	12.0	15.6	20.9	25.0	19.2	13.5	13.1
SE	1.7	22.8	22.1	2.3	.0	.0		48.9	11.3		54.2	53.3	58.6	43.6	51.9	40.4	45.3	47.4
S	1.3	10.1	4.6	.5	.0	.0		16.5	9.4		18.8	20.9	13.4	13.4	14.4	16.0	16.2	18.9
SW	1.5	2.8	.6	.0	.0	.0		5.0	5.6		14.6	4.6	1.1	2.6	.0	4.5	9.9	6.1
W	1.3	.7	.0	.0	.0	.0		2.0	3.3		4.2	1.0	.0	2.0	.0	2.6	2.7	3.8
NW	.0	1.6	.2	.0	.0	.0		1.7	6.8		.0	1.0	.0	1.7	.0	3.8	2.2	3.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0		.0	2.0	3.2	1.2	7.7	3.8	2.2	1.3
TOT OBS	71	301	185	17	0	0		574	9.3		24	98	93	86	26	78	91	78
TOT PCT	12.4	52.4	32.2	3.0	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	2.4	.3	.0	.0	.0			2.8	4.3		2.5	2.2	2.9	3.6	
NE	3.8	1.1	.2	.0	.0			5.1	5.4		1.0	8.9	4.6	3.6	
E	6.4	8.2	1.0	.0	.0			15.7	8.6		11.1	18.2	20.7	13.3	
SE	10.5	29.5	8.8	.4	.0			48.9	11.3		53.3	51.4	43.3	46.3	
S	5.9	8.7	2.0	.0	.0			16.5	9.4		20.5	13.4	15.6	17.5	
SW	3.7	1.2	.1	.0	.0			5.0	5.6		6.6	1.8	3.4	8.1	
W	1.8	.2	.0	.0	.0			2.0	3.3		1.6	1.0	1.9	3.2	
NW	1.1	.6	.0	.0	.0			1.7	6.8		.8	.8	2.9	2.7	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	2.4							2.4	.0		1.6	2.2	4.8	1.8	
TOT OBS	218	286	69	1	0			574	9.3		122	179	104	169	
TOT PCT	38.0	49.8	12.0	.2	.0			100.0			100.0	100.0	100.0	100.0	

APRIL

AREA 0002 CAIRNS
17.25 146.0FPERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1882-1969

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

PERCENTAGE DISTRIBUTION										TOTAL OBS
HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	
0000	1.6	9.8	49.2	36.1	3.3	.0	.0	9.7	100.0	122
0600	2.2	11.2	58.1	25.7	2.8	.0	.0	8.5	100.0	179
1200	4.8	8.7	51.0	32.7	2.9	.0	.0	9.2	100.0	104
1800	1.8	9.5	49.7	36.1	3.0	.0	.0	9.6	100.0	169
TOT	14	57	301	185	17	0	0	9.3		574
PCT	2.4	9.9	52.4	32.2	3.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	1.6	.0	.0	.0		1.6
NF	.5	.0	.3	.3		4.7
E	10.3	.8	3.5	1.0		3.0
SE	10.3	15.5	15.5	7.4		4.2
S	2.7	4.9	5.7	5.4		5.2
SW	2.2	.5	2.7	.0		4.0
W	.0	1.1	.0	.0		3.0
NW	.0	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	1.1	.0	.0	.0	92	4.1
TOT OBS	32	21	28	14		
TOT PCT	34.8	22.8	27.7	15.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	4H < 5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6
.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.8
.0	.0	.0	.8	.8	.0	.0	.0	.0	.0	.0	14.9
.0	.0	.0	3.8	5.7	5.4	2.2	.0	.0	.0	.0	37.8
.0	.0	.0	3.0	1.9	1.6	3.3	.0	.0	.0	.0	8.4
.0	.0	.0	.0	1.1	.5	.0	.0	1.1	.0	.0	2.7
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	92
.0	.0	.0	.0	.7	.9	.5	.0	1.1	.0	.0	68.5
.0	.0	.0	7.6	9.8	7.6	5.4	.0	1.1	.0	.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >30YD	= OR >0
= OR >4500	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >4000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3500	3.2	3.2	4.3	6.5	6.5	6.5	6.5	6.5
= OR >3000	9.7	9.7	11.8	14.0	14.0	14.0	14.0	14.0
= OR >2000	18.3	18.3	21.5	23.7	23.7	23.7	23.7	23.7
= OR >1000	21.5	24.7	29.0	31.2	31.2	31.2	31.2	31.2
= OR >600	21.5	24.7	29.0	31.2	31.2	31.2	31.2	31.2
= OR >300	21.5	24.7	29.0	31.2	31.2	31.2	31.2	31.2
= OR >150	21.5	24.7	29.0	31.2	31.2	31.2	31.2	31.2
= OR >0	21.5	24.7	29.0	31.2	31.2	31.2	31.2	31.2
TOTAL	20	23	27	29	29	29	29	29

TOTAL NUMBER OF OBS: 93

PCT FREQ NH < 5/8: 68.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
7.4	17.5	17.5	17.5	8.7	7.8	6.8	4.9	11.7	.0	103

APRIL

PERIOD: (PRIMARY) 1921-1949
(OVER-ALL) 1882-1949

TABLE 8

AREA 0004 CAIRNS
17.25 146.0FPERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	.3
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	.3
1<2	PCP	.0	.3	.0	.2	.5	.0	.0	.0	.0	.0	.9	.9
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.3	.0	.2	.5	.0	.0	.0	.0	.0	.9	.9
2<5	PCP	.0	.0	.0	1.0	.2	.3	.0	.0	.0	.0	1.5	1.5
	NO PCP	.3	.0	.9	.3	.9	.1	.2	.0	.0	.0	2.8	2.8
	TOT %	.3	.0	.9	1.3	1.2	.4	.2	.0	.0	.0	4.3	4.3
5<10	PCP	.0	.3	1.2	4.1	1.1	.0	.0	.0	.0	.0	6.7	6.7
	NO PCP	.8	2.5	4.0	20.0	4.8	2.3	1.5	1.2	.0	1.5	38.7	38.7
	TOT %	.8	2.8	5.2	24.2	5.9	2.3	1.5	1.2	.0	1.5	45.4	45.4
10+	PCP	.0	.0	.0	1.7	1.1	.0	.0	.0	.0	.0	2.8	2.8
	NO PCP	1.8	1.7	9.5	22.1	7.3	1.9	.9	.2	.0	.9	46.3	46.3
	TOT %	1.8	1.7	9.5	23.8	8.4	1.9	.9	.2	.0	.9	49.1	49.1
TOT OBS													326
TOT PCT		2.9	4.8	15.6	49.4	15.9	4.9	2.7	1.4	.0	2.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.2
	4-10	.0	.2	.0	.1	.6	.0	.0	.0	.0	.0	.9	.9
	11-21	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.5	.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.0	.3	.8	.0	.2	.0	.0	.0	1.6	1.6
2<5	0-3	.2	.0	.0	.0	.0	.1	.2	.0	.0	.0	.5	.5
	4-10	.0	.0	.7	.1	.6	.2	.0	.0	.0	.0	1.6	1.6
	11-21	.0	.0	.2	.9	.2	.0	.0	.0	.0	.0	1.4	1.4
	22+	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.7	.7
	TOT %	.2	.0	.9	1.7	.9	.3	.2	.0	.0	.0	4.2	4.2
5<10	0-3	.0	1.3	.3	.7	.8	1.0	.7	.0	.0	1.2	6.0	6.0
	4-10	.6	.5	2.1	9.1	2.6	.5	.5	.7	.0	.0	16.5	16.5
	11-21	.0	.3	1.7	9.1	1.4	.2	.0	.2	.0	.0	13.0	13.0
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2
	TOT %	.6	2.1	4.2	19.1	4.8	1.7	1.2	.9	.0	1.2	35.8	35.8
10+	0-3	.9	1.0	.9	1.0	.6	.5	.6	.0	.0	.9	6.5	6.5
	4-10	1.6	1.8	7.2	12.6	6.0	1.9	.3	.9	.0	.0	32.3	32.3
	11-21	.0	.1	1.2	12.8	3.3	.6	.0	.0	.0	.0	17.9	17.9
	22+	.0	.0	.0	.9	.5	.0	.0	.0	.0	.0	1.4	1.4
	TOT %	2.6	2.9	9.3	27.3	10.3	3.0	.9	.9	.0	.9	58.1	58.1
TOT OBS													430
TOT PCT		3.4	5.2	14.4	48.5	16.8	5.2	2.5	1.9	.0	2.1	100.0	

APRIL

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1882-1969AREA 0002 CAIRNS
17.25 146.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.0	.0	.0	3.8	11.5	11.5	3.8	.0	3.8	.0	34.6	65.4	26
06009	.0	.0	.0	10.7	.0	3.6	7.1	.0	.0	.0	21.4	78.6	28
12015	.0	.0	.0	12.5	16.7	.0	4.2	.0	.0	.0	33.3	66.7	24
18021	.0	.0	.0	.0	9.1	13.6	4.5	.0	.0	.0	27.3	72.7	22
TOT	0	0	0	7	9	7	5	0	1	0	29	71	100
PCT	.0	.0	.0	7.0	9.0	7.0	5.0	.0	1.0	.0	29.0	71.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	.0	.0	1.1	2.1	26.6	70.2	94
06009	.0	.7	2.9	6.5	42.0	47.8	138
12015	.0	.0	1.2	1.2	41.2	56.5	85
18021	.0	.0	.7	5.2	36.6	57.5	134
TOT	0	1	7	19	167	257	451
PCT	.0	.2	1.6	4.2	37.0	57.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HR	<130 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
(GMT)						
00003	.0	.0	8.0	28.0	64.0	25
06009	.0	.0	15.4	7.7	76.9	26
12015	.0	.0	19.0	19.0	61.9	21
18021	.0	.0	9.5	19.0	71.4	21
TOT	0	0	12	17	64	93
PCT	.0	.0	12.9	18.3	68.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.4	.0	.0	1	.4
85/89	.0	.0	.0	.4	.0	.4	.4	.4	4	1.7
80/84	.0	.0	.0	.9	5.6	9.9	12.4	4.7	78	33.5
75/79	.0	.0	.0	.9	1.7	26.2	24.5	7.3	141	60.5
70/74	.0	.0	.0	.9	.0	.4	.4	1.7	8	3.4
65/69	.0	.0	.0	.0	.4	.0	.0	.0	1	.4
TOTAL	0	0	0	7	18	87	88	33	233	100.0
PCT	.0	.0	.0	3.0	7.7	37.3	37.8	14.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
85/89	.0	.0	.0	.5	.8	.4	.0	.0	.0	.0
80/84	.4	2.0	3.1	19.8	3.5	1.6	.8	.9	.0	1.3
75/79	1.3	2.0	11.5	31.0	10.1	2.3	.9	.2	.0	1.3
70/74	.0	.0	.0	1.9	1.1	.0	.0	.4	.0	.0
65/69	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0
TOTAL	1.7	4.1	14.6	54.0	15.7	4.3	1.6	1.5	.0	2.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	95	92	87	80	75	73	71	80.3	124
06009	87	86	84	79	75	72	69	79.2	183
12015	82	81	81	78	74	73	73	77.8	108
18021	85	84	81	78	74	71	71	77.6	173
TOT	95	87	84	78	74	72	69	78.7	588

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)								
00003	.0	1.9	9.6	40.4	30.8	17.3	80	52
06009	.0	5.6	14.1	42.3	25.4	12.7	77	71
12015	.0	2.1	.0	31.9	53.2	17.8	82	47
18021	.0	1.4	5.4	33.8	44.6	14.9	81	74
TOT	0	7	19	91	92	35	80	244

APRIL

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1882-1969

TABLE 17

AREA 0002 CAIRNS
17.25 146.0EPCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	64 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	N FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.4	1	.0	.4
9/10	.0	.0	.0	.0	.0	.4	.0	1	.0	.4
7/8	.0	.0	.4	.4	.4	.0	.0	3	.0	1.1
6	.0	.0	.0	.4	.4	.0	.0	2	.4	.4
5	.0	.0	.0	.7	.0	.0	.0	2	.0	.7
4	.0	.0	.0	1.5	.4	.0	.0	5	.4	1.5
3	.0	.0	.4	2.6	.4	.0	.0	9	.4	3.0
2	.0	.0	5.6	3.3	.0	.0	.0	24	.4	8.5
1	.0	.7	8.5	5.2	.0	.0	.0	39	.7	13.7
0	.0	.0	14.4	3.3	.0	.0	.0	48	1.1	16.7
-1	.0	.7	14.1	1.5	.0	.0	.0	44	1.5	14.8
-2	.0	3.3	14.1	1.9	.0	.0	.0	52	.0	19.3
-3	.0	1.1	5.6	.4	.0	.0	.0	19	.0	7.0
-4	.0	1.5	4.8	.0	.0	.0	.0	17	.0	6.3
-5	.0	.0	.4	.0	.0	.0	.0	1	.0	.4
-6	.0	.0	.4	.0	.0	.0	.0	1	.0	.4
-7/-8	.4	.4	.0	.0	.0	.0	.0	2	.0	.7
TOTAL	1	21	185	57	4	1	1	270	13	257
PCT	.4	7.8	68.5	21.1	1.5	.4	.4	100.0	4.8	95.2

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	1-2	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	3-4	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	5-6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	7	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	TOT PCT	.0	.0	.4	.0	.0	.0	.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	5.5	.0	.0	.0	.0	5.5	<1	1.6	5.5	.4	.0	.0	.0	7.4
1-2	.0	1.2	.0	.0	.0	.0	1.2	1-2	.0	10.2	2.0	.0	.0	.0	12.1
3-4	.0	5.1	2.7	.0	.0	.0	7.8	3-4	1.6	8.2	7.4	.0	.0	.0	17.2
5-6	.0	.0	1.6	.0	.0	.0	1.6	5-6	.0	.0	16.0	1.6	.0	.0	17.6
7	.0	.0	1.2	.0	.0	.0	1.2	7	.0	.0	4.7	1.6	.0	.0	6.3
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.7	5.5	.0	.0	.0	17.2	TOT PCT	3.1	23.8	30.5	3.1	.0	.0	60.5

PERIOD: (OVER-ALL) 1963-1969

APRIL

AREA 0002 CAIRNS
17.25 146.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.6	1.2	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.7	1.2	.0	.0	.0	3.9	.0	1.6	1.6	.0	.0	.0	3.1	.0
3-4	.0	3.9	3.9	.0	.0	.0	7.8	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.2	9.0	.0	.0	.0	17.2	.0	1.6	1.6	.0	.0	.0	3.1	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	4.6	12.3	1.5	.0	.0	.0	18.5	.0
1-2	.0	15.4	4.6	.0	.0	.0	20.0	.0
3-4	1.5	16.9	13.8	.0	.0	.0	32.2	.0
5-6	.0	.0	20.0	1.5	.0	.0	21.5	.0
7	.0	.0	6.2	1.5	.0	.0	7.7	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	6.2	44.6	46.2	3.1	.0	.0	100.0	65

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	16.0	30.9	17.0	7.4	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	2
6-7	.0	1.1	6.4	5.3	7.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	5
8-9	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	
TOTAL	19	30	22	12	10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	94	3
PCT	20.2	31.9	23.4	12.8	10.6	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1919-1969
(OVER-ALL) 1875-1969

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	.0	.0	8.0	.0	.0	.0	.0	8.0	.0	.0	.0	.0	.0	.0	92.0
NE	9.8	.0	.0	.0	.0	.0	.0	9.8	.0	.0	.0	.0	.0	.0	90.2
E	3.8	3.3	1.1	.0	.0	.0	.0	8.2	.0	.0	.0	.0	1.6	.0	90.2
SE	3.8	6.3	1.8	.0	.0	.0	.0	11.8	1.1	.5	.5	.0	.1	.0	85.9
S	6.9	5.0	.0	.0	.0	.0	.0	12.0	.9	.0	.0	.0	.0	.0	87.1
SW	1.4	5.5	.0	.0	.0	.0	.0	6.8	5.5	.0	.0	.0	.0	.0	87.7
W	.0	.0	20.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
NW	.0	.0	24.0	.0	.0	.0	.0	24.0	.0	.0	.0	.0	.0	.0	76.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	4.2	5.0	2.1	.0	.0	.0	.0	11.3	1.0	.3	.3	.0	.3	.0	86.9
TOT OBS:	381														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
00003	4.8	1.2	2.4	.0	.0	.0	.0	8.3	3.6	.0	.0	.0	.0	.0	88.1
06009	3.2	4.8	.8	.0	.0	.0	.0	8.8	.0	.0	.0	.0	.0	.0	91.2
12015	5.9	8.2	1.2	.0	.0	.0	.0	15.3	2.4	1.2	.0	.0	.0	.0	81.2
18021	5.1	5.1	4.0	.0	.0	.0	.0	14.1	.0	.0	1.0	.0	1.0	.0	83.8
TOT PCT	4.6	4.8	2.0	.0	.0	.0	.0	11.5	1.3	.3	.3	.0	.3	.0	86.5
TOT OBS:	393														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.1	.7	.0	.0	.0	.0		1.7	3.6		.0	1.1	.8	3.4	.0	4.1	1.0	1.2
NE	.9	1.9	.1	.0	.0	.0		3.0	6.0		4.0	.9	2.9	4.9	.7	5.2	3.6	1.2
E	1.1	6.3	2.5	.1	.0	.0		10.0	8.8		10.0	5.5	7.1	12.7	22.3	13.4	10.8	6.7
SE	2.0	24.9	20.4	3.7	.1	.0		51.1	11.7		48.0	52.2	64.1	57.1	61.5	49.0	37.9	38.4
S	1.6	13.4	6.4	.6	.0	.0		21.9	9.6		24.0	29.9	21.6	14.5	9.5	15.5	20.4	34.6
SW	1.0	3.0	.5	.0	.0	.0		4.5	6.3		14.0	4.0	.8	2.0	.7	1.5	10.8	8.7
W	1.2	1.9	.0	.0	.0	.0		3.1	4.6		.0	3.1	.0	.0	.0	2.1	10.3	6.4
NW	.4	1.0	.0	.0	.0	.0		1.4	4.9		.0	1.5	.8	.5	.0	3.1	1.0	2.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1							3.1	.0		.0	1.8	1.7	4.9	5.4	6.2	4.1	.0
TOT DBS	84	359	202	30	1	0	676		9.7		25	113	119	102	37	97	97	86
TOT PCT	12.4	53.1	29.9	4.4	.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	1.5	.2	.0	.0	.0		1.7	3.6	.9	2.0	3.0	1.1
NE	1.8	1.0	.1	.0	.0		3.0	6.0	1.4	3.8	3.9	2.5
E	3.6	5.7	.8	.0	.0		10.0	8.8	6.3	9.7	15.9	8.9
SE	9.3	31.0	9.3	1.5	.0		51.1	11.7	51.4	60.9	52.4	38.1
S	7.0	12.6	2.2	.1	.0		21.9	9.6	28.8	18.3	13.8	27.0
SW	2.9	1.5	.1	.0	.0		4.5	6.3	5.8	1.4	1.3	9.8
W	2.5	.6	.0	.0	.0		3.1	4.6	2.5	.0	1.5	8.5
NW	1.1	.3	.0	.0	.0		1.4	4.9	1.3	.7	2.2	1.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.1						3.1	.0	1.4	3.2	6.0	2.2
TOT DBS	222	358	85	11	0	676		9.7	138	221	134	183
TOT PCT	32.8	53.0	12.6	1.6	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1919-1969
(OVER-ALL) 1875-1969

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND DIR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	1.4	10.1	44.9	36.2	7.2	.0	.0	10.6	100.0	138
06609	3.2	8.6	55.7	29.4	2.7	.5	.0	9.5	100.0	221
12615	6.0	7.5	53.0	30.6	3.0	.0	.0	9.6	100.0	134
18621	2.2	10.9	56.3	25.1	5.5	.0	.0	9.4	100.0	143
TOT	2.1	6.3	35.9	20.2	3.0	1	0	9.7		676
PCT	3.1	9.3	53.1	29.9	4.4	.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0		.0
NE	2.1	.9	.0	.0		1.5
E	5.6	4.2	4.9	.0		3.5
SE	11.1	9.5	20.6	13.2		5.2
S	4.9	3.0	8.6	1.4		4.5
SW	3.2	.9	1.2	1.2		3.5
W	.0	.0	.0	.0		.0
NW	.9	.0	.0	.0		1.0
VAR	.0	.0	.0	.0		.0
CALM	1.9	.9	.0	.0		2.0
TOT OBS	32	21	36	17	108	4.5
TOT PCT	29.6	19.4	33.2	15.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT) NH >4'8"
AND OCCURRENCE OF NH <5'8" BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5'8" ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0
.0	.0	.0	.0	.0	.7	1.9	.0	.0	.0	.0	12.1
.0	.0	2.8	4.9	8.1	5.6	1.9	.0	.0	.0	.0	31.3
.0	.0	.0	.7	3.0	1.6	.9	.0	.0	.0	.0	11.6
.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	8.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73
.0	.0	3	6	13	10	3	.0	.0	.0	.0	108
.0	.0	2.8	5.6	12.0	9.3	2.8	.0	.0	.0	.0	67.6
											100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4'8") AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >30YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >4000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
= OR >3000	9.9	10.8	11.7	11.7	11.7	11.7	11.7	11.7
= OR >2000	18.9	21.6	23.4	23.4	23.4	23.4	23.4	23.4
= OR >1000	23.4	26.1	28.8	28.8	28.8	28.8	28.8	28.8
= OR >600	24.3	27.9	31.5	31.5	31.5	31.5	31.5	31.5
= OR >300	24.3	27.9	31.5	31.5	31.5	31.5	31.5	31.5
= OR >150	24.3	27.9	31.5	31.5	31.5	31.5	31.5	31.5
= OR > C	24.3	27.9	31.5	31.5	31.5	31.5	31.5	31.5
TOTAL	27	31	35	35	35	35	35	35

TOTAL NUMBER OF OBS: 111

PCT FREQ NH <5'8" 68.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
7.4	18.0	16.4	14.8	10.7	6.6	9.8	8.2	8.2	.0	122

PERIOD: (PRIMARY) 1919-1969
(OVER-ALL) 1875-1969

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY													TOTAL OBS
VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	
<1/2	PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3
1<2	PCP	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.5	.5
	NO PCP	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	.5	.5
	TOT %	.0	.3	.0	.4	.4	.0	.0	.0	.0	.0	1.0	1.0
2<5	PCP	.0	.0	.2	.6	.0	.0	.0	.0	.0	.0	.8	.8
	NO PCP	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	1.6	1.6
	TOT %	.0	.0	.2	2.2	.0	.0	.0	.0	.0	.0	2.4	2.4
5<10	PCP	.1	.0	.8	4.3	2.0	.3	.5	.4	.0	.0	8.4	8.4
	NO PCP	1.3	1.3	4.1	21.1	10.8	1.4	1.3	.9	.0	.3	42.5	42.5
	TOT %	1.4	1.3	4.9	25.3	12.9	1.7	1.8	1.3	.0	.3	50.9	50.9
10+	PCP	.0	.0	.0	1.0	.2	.1	.0	.0	.0	.0	1.3	1.3
	NO PCP	.2	1.1	7.0	22.8	7.3	3.0	.8	.3	.0	1.3	43.6	43.6
	TOT %	.2	1.1	7.0	23.8	7.5	3.1	.8	.3	.0	1.3	45.1	45.1
TOT OBS													381
TOT PCT													
		1.6	2.7	12.0	52.2	20.8	4.8	2.6	1.6	.0	1.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY														TOTAL OBS
VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT		
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	11-21	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.6	.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.0	.3	.3	.0	.0	.0	.0	.0	.8	.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.6	.0	.0	.0	.0	.0	.0	.8	.8	
	11-21	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	1.7	1.7	
	22+	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	.4	
	TOT %	.0	.0	.1	2.7	.0	.0	.0	.0	.0	.0	2.8	2.8	
5<10	0-3	.7	.3	.5	.3	.8	.5	.4	.3	.0	.4	3.9	3.9	
	4-10	.6	.5	2.4	11.3	7.0	.8	1.0	.9	.0	.9	24.6	24.6	
	11-21	.0	.2	1.0	7.8	2.0	.0	.0	.0	.0	.0	11.1	11.1	
	22+	.0	.0	.0	2.7	.3	.0	.0	.0	.0	.0	3.0	3.0	
	TOT %	1.2	.9	3.9	22.2	10.1	1.3	1.4	1.2	.0	.4	42.7	42.7	
10+	0-3	.6	.8	.6	2.1	.8	.8	.4	.1	.0	3.0	9.2	9.2	
	4-10	.1	.9	4.0	11.9	6.6	2.3	.5	.4	.0	.0	26.7	26.7	
	11-21	.0	.0	1.4	12.0	3.1	.3	.0	.0	.0	.0	16.9	16.9	
	22+	.0	.0	.1	.4	.1	.0	.0	.0	.0	.0	.6	.6	
	TOT %	.7	1.7	6.1	26.5	10.7	3.2	.8	.5	.0	3.0	53.4	53.4	
TOT OBS													532	
TOT PCT														
		1.9	2.9	10.2	52.0	21.0	4.7	2.3	1.7	.0	3.4	100.0		

MAY

PERIOD: (PRIMARY) 1919-1969
(OVER-ALL) 1875-1969AREA 0002 CAIRNS
17.15 145.9F

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	0.0	8.0	16.0	8.0	.0	.0	.0	40.0	60.0	23
06009	.0	.0	.0	3.0	9.1	15.2	.0	.0	.0	.0	27.3	72.7	33
12015	.0	.0	8.3	2.8	16.7	2.8	2.8	.0	.0	.0	33.3	66.7	36
18021	.0	.0	.0	8.7	6.7	.0	.0	.0	.0	.0	17.4	82.6	23
TOT	0	0	3	6	13	10	3	0	0	0	35	82	117
PCT	.0	.0	2.6	5.1	11.1	8.5	2.6	.0	.0	.0	29.9	70.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	1.0	2.9	39.0	57.1	105
06009	.5	.0	1.1	3.8	39.3	55.2	183
12015	.0	.0	.9	2.6	45.3	51.3	117
18021	.0	.7	.0	2.1	50.4	46.8	141
TOT	1	1	4	16	237	287	546
PCT	.2	.2	.7	2.9	43.4	52.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	13.0	30.4	56.5	23
06009	.0	.0	3.1	25.0	71.9	32
12015	.0	8.8	14.7	20.6	64.7	34
18021	.0	.0	9.1	9.1	81.8	22
TOT	0	3	11	24	76	111
PCT	.0	2.7	9.9	21.6	68.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
84/89	.0	.0	.0	.0	.3	.0	.0	.0	1	.3
80/84	.0	.0	.0	.3	2.1	1.7	1.7	.0	17	5.9
74/79	.0	.0	1.4	1.0	5.2	24.2	15.6	10.7	168	58.1
70/74	.0	.0	1.0	1.4	4.8	3.8	10.0	11.1	93	32.2
64/69	.0	.0	.0	.3	.0	1.4	1.0	.7	10	3.5
TOTAL	0	0	7	6	36	90	82	65	289	100.0
PCT	.0	.0	2.4	3.1	12.5	31.1	28.4	22.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
84/89	.0	.0	.0	.1	.3	.0	.0	.0	.0	.0
80/84	.2	.0	1.1	3.4	.7	.0	.2	.3	.0	.0
74/79	1.0	1.9	7.8	29.4	11.5	2.0	1.7	1.0	.0	1.7
70/74	.3	.4	3.3	13.7	8.5	2.5	.7	.7	.0	.0
64/69	.3	.0	.3	1.0	.7	.7	.2	.2	.0	.0
TOTAL	1.9	2.3	12.5	49.7	21.6	5.2	2.8	2.2	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	90%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	83	81	76	71	69	67	75.9	133
06009	89	83	81	76	72	69	69	76.0	222
12015	80	79	79	75	71	68	67	74.8	135
18021	85	79	78	74	69	65	65	73.8	185
TOT	89	83	80	75	70	68	65	75.2	675

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.3	15.8	36.8	19.3	22.8	78	57		
06009	.0	7.4	12.6	37.9	29.5	12.6	77	95		
12015	.0	5.8	10.1	24.6	34.8	24.6	81	69		
18021	.0	3.8	13.8	23.8	30.0	28.8	81	80		
TOT	0	17	39	93	87	65	79	301		

MAY

PERIOD: (PRIMARY) 1919-1969
(OVER-ALL) 1875-1969

TABLE 17

AREA 0002 CAIRNS
17.15 145.9EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.3	1	.0	.3
9/10	.0	.0	.0	.6	.0	.0	.0	2	.0	.6
7/8	.0	.0	.3	.0	.3	.3	.0	3	.0	.9
5	.0	.0	.9	.9	.6	.0	.0	8	.0	2.5
4	.0	.0	.9	.3	.0	.0	.0	4	.0	1.2
3	.0	.0	1.2	1.8	.3	.0	.0	11	.0	3.4
2	.0	.3	2.2	5.2	.9	.0	.0	28	.0	8.6
1	.0	.3	3.4	8.0	.0	.0	.0	38	.0	11.7
0	.0	.9	11.4	5.5	.3	.0	.0	59	.3	17.8
-1	.0	1.5	8.6	4.6	.0	.0	.0	48	.0	14.8
-2	.0	2.5	10.5	2.8	.3	.0	.0	52	.0	16.0
-3	.0	3.1	5.5	.9	.0	.0	.0	31	.0	9.5
-4	.3	1.5	4.3	.3	.0	.0	.0	21	.0	6.5
-5	.0	.9	1.5	.0	.0	.0	.0	8	.0	2.5
-6	.3	1.2	.3	.0	.0	.0	.0	6	.0	1.8
-7/-8	.0	.6	.6	.0	.0	.0	.0	4	.0	1.2
-11/-13	.3	.0	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	3	42	168	101	9	1	1	325	1	324
PCT	.9	12.9	51.7	31.1	2.8	.3	.3	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.3	1.3	.0	.0	.0	.0	1.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.0	1.3	.0	.0	.0	.0	3.3	1.7	1.7	1.3	.0	.0	.0	4.7
1-2	.0	8.0	.0	.0	.0	.0	8.0	.0	18.7	6.0	.0	.0	.0	24.7
3-4	.0	5.0	3.3	.0	.0	.0	8.3	.0	3.0	19.0	1.3	.0	.0	23.3
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	8.0	.0	.0	.0	8.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.0	14.3	4.7	.0	.0	.0	21.0	1.7	23.3	34.3	1.3	.0	.0	60.7

PERIOD: (OVER-ALL) 1943-1969

MAY

AREA 0002 CAIRNS
17,15 145.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	2.3	.0	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	3.0	.0	.0	.0	3.0	.0	2.7	.3	.0	.0	.0	3.0	.0
3-4	.0	.0	7.0	.0	.0	.0	7.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.3	10.0	.0	.0	.0	12.3	.0	2.7	.3	.0	.0	.0	3.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.3	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.3	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.5	6.5	1.3	.0	.0	.0	14.3	
1-2	.0	29.9	9.1	.0	.0	.0	39.0	
3-4	.0	7.8	28.6	1.3	.0	.0	37.7	
5-6	.0	.0	9.1	.0	.0	.0	9.1	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.5	44.2	48.1	1.3	.0	.0	100.0	77

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.0	28.9	26.3	6.1	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	79	3
6-7	.0	1.8	12.3	6.1	3.5	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	28	4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDFT	5.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	0
TOTAL	14	35	15	14	5	0	1	0	0	0	0	0	0	0	0	0	0	0	0	114	3
PCT	12.3	30.7	35.5	12.3	4.4	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1899-1969
(OVER-ALL) 1883-1969AREA 0002 CAIRNS
17.15 145.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	*MOJKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	10.0	10.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	.0	.0	.0	80.0
NE	.0	13.8	.0	.0	.0	.0	.0	13.8	.0	.0	.0	.0	.0	.0	86.2
E	3.7	11.2	9.3	.0	.0	.0	.0	24.3	.0	.0	1.9	.0	.0	.0	73.8
SE	2.5	10.0	1.1	.0	.0	.0	.0	13.6	1.3	.0	2.0	.0	.4	.0	82.8
S	6.7	3.6	5.9	.0	.0	.0	.0	16.2	.6	1.5	.4	.0	.0	.0	82.1
SW	13.5	.0	2.2	.0	.0	.0	.0	15.7	.0	.0	.0	.0	.0	.0	84.3
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	4.0	4.0	.0	.0	.0	.0	.0	8.0	.0	.0	.0	.0	.0	.0	92.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	4.8	7.2	2.8	.0	.0	.0	.0	14.8	.8	.4	1.2	.0	.2	.0	82.8
TOT OBS:	501														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00&03	3.7	5.6	1.9	.0	.0	.0	.0	11.1	.0	.0	1.9	.0	.0	.0	87.0
06&09	3.2	7.1	3.2	.0	.0	.0	.0	13.5	.0	.0	1.3	.0	.6	.0	84.5
12&15	5.6	8.4	3.7	.0	.0	.0	.0	17.8	2.8	.9	.9	.0	.0	.0	78.5
18&21	6.4	6.4	1.9	.0	.0	.0	.0	14.6	.6	.6	.6	.0	.0	.0	83.4
TOT PCT TOT OBS:	4.7 527	6.8	2.7	.0	.0	.0	.0	14.2	.8	.4	1.1	.0	.2	.0	83.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.1	.9	.3	.1	.0	.0		2.4	6.2		.0	2.0	3.3	5.8	.0	2.6	1.6	.5
NE	1.5	1.2	.2	.0	.0	.0		2.8	4.6		.0	2.5	3.9	1.8	.0	3.9	2.0	4.1
E	1.3	4.8	1.6	.5	.0	.0		8.2	8.8		3.4	6.1	9.9	10.3	10.7	12.2	5.1	6.0
SE	2.7	22.0	21.0	3.6	.0	.0		49.3	11.6		55.7	45.1	55.8	52.7	54.5	47.4	46.9	45.9
S	3.1	12.1	7.6	.5	.0	.0		23.3	9.6		31.8	28.3	21.9	17.4	26.8	17.8	26.8	24.3
SW	1.9	5.4	1.2	.0	.0	.0		8.4	7.3		9.1	9.0	2.7	5.8	8.0	7.8	10.6	14.7
W	.7	.7	.1	.0	.0	.0		1.5	4.7		.0	2.5	.0	1.3	.0	1.7	1.6	2.3
NW	1.1	.8	.1	.0	.0	.0		2.0	4.2		.0	3.7	.8	.4	.0	2.2	3.1	2.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0		.0	.8	1.7	4.5	.0	4.3	2.4	.0
TOT OBS	117	362	242	35	0	0	756		9.7		22	122	121	112	28	115	127	109
TOT PCT	15.5	47.9	32.0	4.6	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	1.9	.3	.3	.0	.0		2.4	6.2	1.7	4.5	2.1	1.1
NE	2.3	.3	.2	.0	.0		2.8	4.6	2.1	2.9	3.1	3.0
E	3.6	3.4	1.2	.0	.0		8.2	8.8	5.7	10.1	11.9	5.5
SE	11.0	25.8	12.4	.1	.0		49.3	11.6	46.7	54.3	48.8	46.4
S	7.5	11.8	3.8	.1	.0		23.3	9.6	28.8	19.7	19.6	25.6
SW	3.8	4.1	.5	.0	.0		8.4	7.3	9.0	4.2	7.9	12.5
W	1.2	.3	.0	.0	.0		1.5	4.7	2.1	.6	1.4	1.9
NW	1.6	.4	.0	.0	.0		2.0	4.2	3.1	.6	1.7	2.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	.7	3.0	3.5	1.3
TOT OBS	265	350	139	2	0	756		9.7	144	233	143	236
TOT PCT	35.1	46.3	18.4	.3	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1883-1969

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PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND			SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
00603	.7	12.5	43.8	38.2	4.9	.0	.0	10.4	100.0	144	
06609	3.0	13.7	47.6	31.8	3.9	.0	.0	9.5	100.0	233	
12615	3.5	13.3	46.9	30.8	5.6	.0	.0	9.7	100.0	143	
18621	1.3	13.6	51.3	29.2	4.7	.0	.0	9.7	100.0	236	
TOT	16	101	362	242	35	0	0	9.7		756	
PCT	2.1	13.4	47.9	32.0	4.6	.0	.0	100.0			

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

BY WIND DIRECTION							MEAN
WIND DIR	0-2	3-4	5-7	8 &	TOTAL	CLOUD	COVER
				OBS	OBS		
N	.0	.0	.0	.0			.0
NE	1.3	.0	.0	.0			1.0
E	1.8	1.8	.6	1.0			4.0
SE	15.7	12.4	18.6	9.5			4.5
S	13.7	4.4	6.4	2.8			3.2
SW	5.7	1.0	.0	1.0			2.0
W	.0	.0	.0	.0			.0
NW	2.1	.0	.0	.0			.0
VAR	.0	.0	.0	.0			.0
CALM	.0	.0	.0	.0			.0
TOT OBS	39	19	25	14	97		3.8
TOT PCT	40.2	19.6	25.8	14.4	100.0		

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH $\geq 4/8$)
AND OCCURRENCE OF NH $\leq 5/8$ BY WIND DIRECTION

[illegible]

CUMULATIVE PCT FRQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CFLING (FEET)	VSBY (NM)							
	■ OR ■ >10	■ OR ■ >5	■ OR ■ >2	■ OR ■ >1	■ OR ■ >1/2	■ OR ■ >1/4	■ OR ■ >90YD	■ OR ■ >0
■ OR >A500	.0	.0	.0	.0	.0	.0	.0	.0
■ OR >9000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
■ OR >3500	2.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
■ OR >2000	6.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
■ OR >1000	11.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
■ OR >600	28.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
■ OR >300	28.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
■ OR >150	28.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
■ OR > 0	28.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
TOTAL	28	31	31	31	31	31	31	31

PCT FREQ NH 65/81 68.7

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.3	18.3	14.4	11.5	6.7	7.7	5.8	8.7	9.6	.0	104

PERIOD: (PRIMARY: 1899-1969
(OVER-ALL) 1883-1969

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2
1/2<1	PCP	.0	.0	.2	.2	.0	.2	.0	.0	.0	.0	.0	.6
	NO PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2
	TOT %	.0	.0	.2	.4	.0	.2	.0	.0	.0	.0	.0	.8
1<2	PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2
2<5	PCP	.0	.0	.0	.2	.4	.2	.0	.0	.0	.0	.0	.8
	NO PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2
	TOT %	.0	.0	.0	.2	.6	.2	.0	.0	.0	.0	.0	1.0
5<10	PCP	.6	.2	1.1	5.7	3.2	1.0	.0	.2	.0	.0	.0	12.0
	NO PCP	2.1	.5	2.3	24.1	12.8	4.2	.3	.7	.0	.0	.8	47.7
	TOT %	2.7	.7	3.4	29.7	16.0	5.2	.3	.9	.0	.0	.8	59.7
10+	PCP	.0	.0	.0	.7	.4	.0	.0	.0	.0	.0	.0	1.2
	NO PCP	.3	.7	1.7	19.2	8.8	3.3	.4	1.6	.0	.0	.8	36.9
	TOT %	.3	.7	1.7	20.0	9.3	3.3	.4	1.6	.0	.0	.8	38.1
501													
TOT OBS													
TOT PCT		3.0	1.4	5.3	50.4	26.1	8.9	.7	2.5	.0	1.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2
	11-21	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.0	.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.2	.3	.0	.2	.0	.0	.0	.0	.0	.6
1<2	0-3	.0	.0	.0	.0	.2	.0	.1	.1	.0	.3	.6	.6
	4-10	.0	.0	.1	.3	.1	.0	.0	.0	.0	.0	.0	.5
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2
	TOT %	.0	.0	.1	.5	.4	.0	.1	.1	.0	.3	1.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	.2
	4-10	.0	.0	.0	.2	.5	.0	.0	.0	.0	.0	.6	.6
	11-21	.0	.0	.0	.8	.7	.2	.0	.0	.0	.0	1.1	1.1
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	.2
	TOT %	.0	.0	.0	1.0	.7	.2	.2	.0	.0	.0	2.1	
5<10	0-3	.8	.2	.6	1.5	2.8	1.3	.2	.5	.0	.6	8.4	8.4
	4-10	.9	.2	1.7	9.8	6.2	2.5	.2	.2	.0	.0	21.6	21.6
	11-21	.3	.2	.8	12.5	4.6	1.0	.0	.1	.0	.0	19.6	19.6
	22+	.2	.0	.3	2.7	.3	.0	.0	.0	.0	.0	3.5	3.5
	TOT %	2.1	.6	3.5	26.5	13.9	4.8	.4	.7	.0	.6	53.1	
10+	0-3	.2	.3	.3	1.4	.6	.6	.2	.8	.0	1.4	5.9	5.9
	4-10	.1	.7	1.5	10.5	6.4	2.6	.3	.8	.0	.0	22.9	22.9
	11-21	.0	.0	.6	8.7	3.2	.*	.2	.0	.0	.0	12.7	12.7
	22+	.0	.0	.2	.9	.0	.0	.0	.0	.0	.0	1.1	1.1
	TOT %	.3	1.0	2.7	21.5	10.2	3.3	.7	1.6	.0	1.4	42.6	42.6
629													
TOT OBS													
TOT PCT		2.5	1.6	6.4	49.8	25.3	8.3	1.4	2.4	.0	2.4	100.0	

JUNE

PERIOD: (PRIMARY) 1899-1969
(OVER-ALL) 1883-1969

TABLE 10

AREA 0002 CAIRNS
17.15 145.9EPERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3495	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00603	.0	.0	.0	18.2	9.1	4.5	4.5	.0	.0	.0	36.4	63.6	22
06609	.0	.0	.0	13.6	4.5	9.1	.0	.0	.0	.0	27.3	72.7	22
12615	.0	.0	.0	21.4	3.6	3.6	.0	.0	.0	.0	28.6	71.4	28
18621	.0	.0	.0	16.7	6.7	.0	3.3	3.3	.0	.0	30.0	70.0	30
TOT	0	0	0	18	6	4	2	1	0	0	31	71	102
PCT	.0	.0	.0	17.6	5.9	3.9	2.0	1.0	.0	.0	30.4	69.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00603	.8	.0	.0	3.2	47.6	48.4	124
06609	.0	1.4	7.9	2.9	55.6	37.2	207
12615	.0	.8	1.5	.8	51.5	45.5	192
18621	.0	.0	.5	1.0	58.9	39.6	197
TOT	1	4	9	13	358	275	660
PCT	.2	.6	1.4	2.0	54.2	41.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00603	.0	.0	18.2	18.2	63.6	22
06609	.0	.0	13.6	13.6	72.7	22
12615	.0	.0	22.2	7.4	70.4	27
18621	.0	.0	17.9	14.3	67.9	28
TOT	0	0	18	13	68	99
PCT	.0	.0	18.2	13.1	68.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/99	.0	.0	.0	.4	.0	.0	.0	.0	1	.4
80/84	.0	.0	.0	.0	.8	.8	.0	.0	4	1.6
75/79	.0	.0	.4	.4	3.1	9.7	5.8	7.7	58	22.6
70/74	.0	.0	1.6	4.3	7.0	14.8	21.0	10.1	151	58.8
65/69	.0	.0	.4	1.6	2.7	2.7	5.4	2.7	40	15.6
60/64	.0	.0	.0	.0	.4	.4	.0	.4	3	1.2
TOTAL	0	0	6	18	36	73	83	41	257	100.0
PCT	.0	.0	2.3	7.0	14.0	28.4	32.3	16.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
.2	.0	.0	1.0	.2	.0	.0	.2	.0	.0
1.0	.2	1.4	12.9	3.8	1.4	.2	1.0	.0	.8
1.6	1.3	1.5	31.4	15.3	4.7	.0	1.6	.0	1.6
.4	.0	.0	5.8	4.8	2.6	.8	.8	.0	.4
.0	.0	.0	.0	.4	.2	.2	.4	.0	.0
3.1	1.5	2.8	51.6	24.4	8.9	1.2	3.9	.0	2.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00603	82	81	79	74	68	64	63	73.8	144
06609	90	83	78	73	68	62	62	73.3	243
12615	82	78	76	72	66	61	61	71.9	148
18621	81	79	76	72	66	63	61	71.6	231
TOT	90	81	78	73	66	62	61	72.6	766

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00603	.0	7.4	22.2	33.3	25.9	11.1	75	54		
06609	.0	14.1	14.1	30.8	24.4	16.7	75	78		
12615	.0	10.3	8.6	31.0	36.2	13.8	78	58		
18621	.0	3.8	12.7	24.1	40.5	19.0	80	79		
TOT	0	24	38	79	86	42	77	269		

JUNE

PERIOD: (PRIMARY) 1899-1969
(OVER-ALL) 1883-1969

TABLE 17

AREA 0002 CAIRNS
17.15 145.9EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.0	.2	.0	.0	1	.0	.2
6	.0	.0	.0	.0	.2	.0	.0	1	.0	.2
5	.0	.0	.0	.9	.4	.2	.0	7	.0	1.5
4	.0	.0	.2	.0	1.3	.2	.0	8	.0	1.7
3	.0	.0	.0	.9	1.3	.2	.0	12	.0	2.6
2	.0	.0	1.1	2.8	2.4	.4	.0	31	.0	6.7
1	.0	.2	3.2	3.6	1.9	.2	.0	43	.4	8.8
0	.0	.4	4.9	10.1	6.4	.0	.0	102	.6	21.2
-1	.0	1.1	4.9	7.7	.0	.0	.0	64	.0	13.7
-2	.0	1.5	5.8	7.5	.2	.0	.0	70	.2	14.8
-3	.0	1.1	3.4	5.6	.0	.0	.0	47	.0	10.1
-4	.0	2.1	3.9	1.5	.2	.0	.0	36	.0	7.7
-5	.2	.9	3.9	.0	.0	.0	.0	23	.0	4.9
-6	.0	1.3	.2	.2	.0	.0	.0	8	.0	1.7
-7/-8	.6	1.1	.4	.2	.0	.0	.0	11	.0	2.4
-9/-10	.0	.0	.0	.2	.0	.0	.0	1	.0	.2
TOTAL	4	45	149	192	69	6	1	466	6	460
PCT	.9	9.7	31.0	41.2	14.6	1.3	.2	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	1.5
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	.0	1.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.2	.0	.0	.0	.0	1.2	1.2	16.0	2.5	.0	.0	.0	19.8
3-4	.0	.0	2.2	.0	.0	.0	2.2	.0	4.9	13.6	1.2	.0	.0	19.8
5-6	.0	.9	.0	.0	.0	.0	.9	.0	.3	8.0	.0	.0	.0	8.3
7	.0	.0	.0	1.2	.0	.0	1.2	.0	.0	5.2	2.5	.0	.0	7.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0	2.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.1	2.2	1.2	.0	.0	6.5	1.2	21.3	31.8	3.7	.0	.0	58.0

PERIOD: (OVER-ALL) 1963-1969

JUNE
TABLE 18 (CONT)

AREA 0002 CAIRNS
17.15 145.9E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	13.8	3.4	.0	.0	.0	17.0	.0	.0	4.9	.3	.0	.0	.0	.0	5.2	.0
3-4	.0	1.2	4.0	.0	.0	.0	5.2	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.9	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	14.8	10.2	.0	.0	.0	25.0	.0	.0	6.2	.3	.0	.0	.0	.0	.0	.0

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0	2.5	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0	2.5	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.4	2.4	.0	.0	.0	.0	4.8	
1-2	1.2	37.3	6.0	.0	.0	.0	44.6	
3-4	.0	7.2	19.3	1.2	.0	.0	27.7	
5-6	.0	1.2	9.6	.0	.0	.0	10.8	
7	.0	.0	6.0	3.6	.0	.0	9.6	
8-9	.0	.0	2.4	.0	.0	.0	2.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	83
TOT PCT	3.6	48.2	43.4	4.8	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.9	32.0	22.3	5.8	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	3
6-7	.0	1.0	5.7	4.9	5.8	1.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	5
8-9	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
10-11	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	1
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	3
INDET	5.8	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOTAL	9	37	33	11	9	1	2	0	1	0	0	0	0	0	0	0	0	0	0	100.0	
PCT	8.7	35.9	32.0	10.7	8.7	1.0	1.9	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		

JULY

PERIOD: (PRIMARY) 1903-1971
(OVER-ALL) 1863-1971AREA 0002 CAIRNS
16.95 146.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	.0	.0	.0	91.7
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
E	2.8	4.4	.0	.0	.0	.0	.0	7.2	.0	.0	.0	.0	2.2	.0	90.6
SE	3.7	3.0	1.2	.0	.0	.0	.0	7.9	.0	.0	1.7	.0	.9	.0	89.4
S	4.3	6.0	.5	.0	.0	.0	.0	10.8	.0	.0	4.0	.0	1.7	.0	83.6
SW	1.4	1.4	5.8	.0	.0	.0	.0	8.7	2.9	2.9	2.9	.0	.0	.0	82.6
W	.0	3.2	0.5	.0	.0	.0	.0	9.7	.0	.0	9.7	.0	.0	.0	80.6
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	.0	.0	96.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.7	.0	.0	.0	.0	.0	.0	7.7	.0	.0	.0	.0	7.7	.0	84.6
TOT PCT	3.3	3.5	1.2	.0	.0	.0	.0	8.1	.2	.2	2.6	.0	1.2	.0	87.7
TOT OBS:	571														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG MEA
00003	3.7	1.5	.7	.0	.0	.0	.0	5.9	.0	.0	.7	.0	.7	.0	92.6
06009	3.0	4.5	.5	.0	.0	.0	.0	8.1	.0	.0	2.5	.0	1.0	.0	88.4
12015	4.7	2.8	1.9	.0	.0	.0	.0	9.4	.0	.9	4.7	.0	2.8	.0	82.1
18021	2.7	4.9	2.7	.0	.0	.0	.0	10.4	.5	.0	2.7	.0	.5	.0	85.7
TOT PCT	3.4	3.7	1.4	.0	.0	.0	.0	8.5	.2	.2	2.6	.0	1.1	.0	87.4
TOT OBS:	521														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.5	1.5	.0	.0	.0	.0		3.1	4.0		.0	1.9	6.1	4.6	.0	2.6	2.3	2.0
NE	1.0	1.4	.0	.0	.0	.0		2.5	4.4		.0	1.3	3.2	4.3	3.0	3.4	.7	2.4
E	1.4	3.6	2.5	.5	.0	.0		8.1	9.6		8.6	6.3	8.5	14.6	5.3	9.0	6.0	4.0
SE	4.1	20.5	18.1	4.0	.0	.0		46.7	11.3		46.6	43.7	54.7	54.4	59.8	38.0	42.1	44.0
S	2.4	10.9	9.7	1.1	.0	.0		24.0	10.8		31.0	31.3	21.0	17.1	10.6	24.4	25.7	26.2
SW	.6	5.2	1.0	.0	.0	.0		6.8	7.2		3.4	5.0	1.4	2.0	9.1	5.3	13.4	14.5
W	1.0	2.0	.1	.0	.0	.0		3.1	5.1		3.4	2.9	1.1	.0	3.0	7.9	3.6	3.2
NW	1.0	1.1	.0	.0	.0	.0		2.2	3.7		3.4	2.9	1.8	.3	.0	4.1	2.3	2.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6							3.6	.0		3.4	4.5	2.2	2.6	9.1	5.3	4.0	1.6
TOT OBS	153	424	287	51	0	0	915		9.6		29	154	139	152	33	133	151	124
TOT PCT	16.7	46.3	31.4	5.6	.0	.0	100.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	06	12
N	2.7	.4	.0	.0	.0		3.1	4.0	1.6	5.3	2.1	2.2
NE	2.0	.4	.0	.0	.0		2.5	4.4	1.1	3.8	3.3	1.5
E	3.4	3.4	1.2	.1	.0		8.1	9.6	6.7	11.7	8.3	5.1
SE	11.7	25.4	8.4	1.1	.0		46.7	11.3	44.1	54.6	42.3	42.9
S	7.1	11.1	5.7	.1	.0		24.0	10.8	31.3	19.0	21.7	25.9
SW	3.8	2.7	.3	.0	.0		6.8	7.2	4.8	1.7	6.0	13.9
W	2.5	.6	.0	.0	.0		3.1	5.1	3.0	.5	6.9	3.5
NW	2.1	.1	.0	.0	.0		2.2	3.7	3.0	1.0	3.3	2.2
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.6						3.6	.0	4.4	2.4	6.0	2.9
TOT OBS	356	404	143	12	0	915		9.6	183	291	166	275
TOT PCT	38.9	44.2	15.6	1.3	.0	100.0			100.0	100.0	100.0	100.0

JULY

PERIOD: (PRIMARY) 1963-1971
(OVER-ALL) 1863-1971AREA 0002 CAIRNS
16.95 146.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000	4.4	11.5	43.7	34.4	6.0	.0	.0	10.1	100.0	183	
0600	2.4	15.5	45.7	29.6	6.9	.0	.0	9.7	100.0	291	
1200	6.0	15.1	47.6	26.5	4.8	.0	.0	8.8	100.0	166	
1800	2.9	10.5	48.0	34.2	4.4	.0	.0	9.7	100.0	275	
TOT	33	120	424	287	51	0	0	9.6		915	
PCT	3.6	13.1	46.3	31.4	5.6	.0	.0	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL OBS	MEAN CLOUD COVER
N	.0	.0	.0	.0	.0	.0
NE	2.7	.0	.0	.0	.0	.3
E	3.1	2.5	2.9	.0	8.5	3.6
SE	16.3	7.8	19.6	5.4	51.1	4.2
S	8.3	5.6	6.0	.9	20.8	3.5
SW	4.5	.2	1.8	.0	6.5	2.2
W	3.6	.0	.0	.0	3.6	.2
NW	2.7	.0	.0	.0	2.7	.0
VAR	.0	.0	.0	.0	.0	.0
CALM	6.3	.0	.0	.0	6.3	.7
TOT OBS	53	18	34	7	112	3.3
TOT PCT	47.3	16.1	30.4	6.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

BY WIND DIRECTION											MEAN		PERCENTAGE										
WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	CLOUD COVER	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH ANY	<5/8 HGT	TOTAL OBS				
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0				
NE	2.7	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	2.7				
E	3.1	2.5	2.9	.0	.0	3.6	.0	.0	.0	.7	.9	.0	.0	.0	.0	.0	.0	.7	6.3				
SE	16.3	7.8	19.6	5.4	.0	4.7	.0	.0	.0	4.7	5.8	4.0	.9	.0	.0	.0	1.1	32.6	51.1				
S	8.3	5.6	6.0	.9	.0	3.5	.0	.0	.0	.9	3.1	1.3	.0	.0	.0	.0	.0	.0	10.8				
SW	4.5	.2	1.8	.0	.0	2.2	.0	.0	.0	.0	.0	.9	.9	.0	.0	.0	.0	.9	4.7				
W	3.6	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6				
NW	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	6.3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3				
TOT OBS	53	18	34	7	112	3.3	.0	0	0	7	11	7	2	0	0	2	83		112				
TOT PCT	47.3	16.1	30.4	6.3	100.0		.0	.0	.0	6.3	9.8	6.3	1.8	.0	.0	1.8	74.1		100.0				

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
>5000	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
>3500	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
>2000	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
>1000	18.8	18.8	19.6	19.6	19.6	19.6	19.6	19.6
>600	23.2	25.0	25.0	25.9	25.9	25.9	25.9	25.9
>300	23.2	25.0	25.0	25.9	25.9	25.9	25.9	25.9
>150	23.2	25.0	25.0	25.9	25.9	25.9	25.9	25.9
>0	23.2	25.0	25.0	25.9	25.9	25.9	25.9	25.9
TOTAL	26	28	28	29	29	29	29	29

TOTAL NUMBER OF OBS: 112

PCT FREQ NH <5/8 74.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
23.3	20.7	11.2	8.6	9.5	6.9	6.0	10.3	3.4	.0	116

JULY

PERIOD: (PRIMARY) 1903-1971
(OVER-ALL) 1863-1971

TABLE 8

AREA 0002 CAIRNS
16.95 146.0EPERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	.0	.0	.8	3.6	.1	.3	.0	.0	.0	4.9	
	TOT %	.2	.0	.0	.8	3.6	.1	.3	.0	.0	.0	4.9	
1<2	PCP	.0	.0	.0	.0	.2	.1	.1	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.4	.2	.0	.0	.0	.0	.2	.7	
	TOT %	.0	.0	.0	.4	.4	.1	.1	.0	.0	.2	1.1	
2<5	PCP	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.2	.7	.1	.0	.0	.0	.0	.0	1.1	
	TOT %	.0	.0	.3	1.2	.1	.0	.0	.0	.0	.0	1.6	
5<10	PCP	.0	.0	.4	2.8	2.3	.4	.2	.0	.0	.2	6.3	
	NO PCP	2.6	1.5	3.8	24.1	12.1	2.5	1.1	1.8	.0	.4	49.9	
	TOT %	2.6	1.5	4.2	26.9	14.4	3.0	1.3	1.8	.0	.5	56.2	
10+	PCP	.0	.0	.1	.4	.4	.0	.0	.0	.0	.0	.9	
	NO PCP	.4	.9	3.3	16.7	7.5	2.9	1.1	1.1	.0	1.6	35.4	
	TOT %	.4	.9	3.5	17.1	7.9	2.9	1.1	1.1	.0	1.6	36.3	
TOT OBS													571
TOT PCT		3.2	2.4	7.9	46.4	26.4	6.0	2.7	2.8	.0	2.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.3	
1/2<1	0-3	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.3	
	4-10	.0	.0	.0	.5	.3	.1	.1	.0	.0	.0	.9	
	11-21	.0	.0	.0	.3	1.8	.0	.0	.0	.0	.0	2.1	
	22+	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	
	TOT %	.1	.0	.0	.7	2.7	.1	.2	.0	.0	.0	3.8	
1<2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.3	
	4-10	.0	.0	.0	.1	.0	.1	.1	.0	.0	.0	.3	
	11-21	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.8	.3	.1	.1	.0	.0	.1	1.3	
2<5	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.8	.2	.0	.0	.0	.0	.0	.9	
	11-21	.0	.0	.1	.5	.1	.0	.0	.0	.0	.0	.8	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.2	1.5	.3	.0	.0	.0	.0	.0	2.0	
5<10	0-3	.8	.3	.9	1.6	1.0	.3	.3	.6	.0	.4	6.2	
	4-10	1.2	.8	1.4	9.1	5.1	2.6	.7	.9	.0	.0	21.7	
	11-21	.0	.0	.8	9.3	5.6	.1	.0	.0	.0	.0	15.7	
	22+	.0	.0	.4	3.8	.6	.0	.0	.0	.0	.0	4.7	
	TOT %	2.0	1.1	3.5	23.7	12.2	3.0	1.0	1.4	.0	.4	48.4	
10+	0-3	.2	.6	.5	2.5	1.2	.3	.3	.5	.0	2.5	8.6	
	4-10	.6	.6	1.5	10.3	4.7	2.3	1.0	.4	.0	.0	21.5	
	11-21	.0	.0	1.4	8.3	2.7	.6	.1	.0	.0	.0	13.2	
	22+	.0	.0	.1	.7	.2	.0	.0	.0	.0	.0	1.1	
	TOT %	.8	1.2	3.5	21.9	8.8	3.3	1.4	.9	.0	2.5	44.3	
TOT OBS													759
TOT PCT		2.9	2.3	7.2	48.8	24.3	6.5	2.6	2.3	.0	3.0	100.0	

JULY

PERIOD: (PRIMARY) 1903-1971
(OVER-ALL) 1863-1971AREA 0002 CAIRNS
16.95 146.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	100 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	3.8	7.7	3.6	.0	.0	.0	.0	15.4	84.6	26
06009	.0	.0	.0	7.4	7.4	3.7	3.7	.0	.0	.0	22.2	77.8	27
12015	.0	.0	.0	3.3	13.3	6.7	3.3	.0	.0	6.7	33.3	66.7	30
18021	.0	.0	.0	9.7	9.7	9.7	.0	.0	.0	.0	29.0	71.0	31
TOT	0	0	0	7	11	7	2	0	0	2	29	85	114
PCT	.0	.0	.0	6.1	9.6	6.1	1.8	.0	.0	1.8	25.4	74.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.7	2.6	1.3	.7	41.8	52.9	103
06009	.0	4.2	1.5	1.9	54.2	38.3	204
12015	.0	3.4	1.4	3.4	43.2	48.6	146
18021	.4	3.6	.8	1.6	52.8	40.8	250
TOT	2	29	10	15	402	355	813
PCT	.2	3.6	1.2	1.8	49.4	43.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	3.8	11.5	84.6	26
06009	.0	.0	7.4	14.8	77.8	27
12015	.0	.0	3.3	30.0	66.7	30
18021	.0	.0	10.3	20.7	69.0	29
TOT	0	0	7	22	83	112
PCT	.0	.0	6.3	19.6	74.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/94	.0	.0	.0	.3	.3	.9	.3	.0	6	1.8
75/79	.0	.0	.6	.4	1.8	6.8	5.3	3.6	63	18.7
70/74	.0	.0	.6	1.5	6.2	11.9	18.7	11.0	168	49.9
65/69	.0	.0	1.2	2.7	2.7	6.5	8.6	5.3	91	27.0
60/64	.0	.0	.0	.3	.6	.3	.9	.6	9	2.7
TOTAL	0	0	8	18	39	89	114	69	337	100.0
PCT	.0	.0	2.4	5.3	11.6	26.4	33.8	20.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60	.0	.0	.8	1.0	.0	.0	.0	.0	.0	.0
75	.9	.6	3.2	8.9	3.6	.3	.0	.6	.0	.6
70	1.0	1.9	3.4	24.7	10.1	4.1	1.3	1.2	.0	2.1
65	.0	.3	.3	11.5	9.4	3.0	1.5	.4	.0	.6
60	.0	.0	.0	1.2	.6	.3	.3	.3	.0	.0
TOTAL	1.9	2.8	7.7	47.3	23.7	7.6	3.1	2.5	.0	3.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	84	30	73	66	63	63	72.8	186
06009	84	81	77	72	66	61	58	72.1	302
12015	82	78	75	70	64	60	58	70.0	171
18021	83	78	76	70	63	60	59	70.0	281
TOT	88	81	77	71	65	60	58	71.2	940

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.9	12.5	37.5	29.2	13.9	77	72		
06009	.0	11.9	12.8	22.0	32.1	21.1	78	109		
12015	.0	7.6	12.1	31.8	31.5	16.7	78	66		
18021	.0	2.8	8.3	18.5	40.7	29.6	82	108		
TOT	0	26	40	92	121	76	79	355		

JULY

PERIOD: (PRIMARY) 1903-1971
(OVER-ALL) 1863-1971

TABLE 17

AREA 0002 CAIRNS
16.95 146.0EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.6	.2	4	.0	.7
7/8	.0	.0	.0	.0	.4	.2	.0	3	.0	.6
6	.0	.0	.0	1.5	.7	.0	.0	12	.0	2.2
5	.0	.0	.7	.7	.6	.0	.0	11	.0	2.0
4	.0	.0	1.1	1.9	1.3	.4	.0	25	.7	3.9
3	.0	.0	.7	2.4	1.7	.0	.0	26	.4	4.5
2	.0	.2	3.5	4.6	1.3	.6	.0	55	.4	9.9
1	.0	.4	.9	6.3	1.1	.2	.0	48	.2	8.7
0	.0	1.7	5.2	8.6	.9	.2	.0	89	.7	15.8
-1	.0	.7	6.5	5.2	1.1	.0	.0	73	.2	13.4
-2	.0	1.7	8.4	3.7	.2	.2	.0	76	.4	13.8
-3	.0	1.9	3.9	1.3	.0	.0	.0	38	.0	7.1
-4	.2	3.0	2.8	.7	.0	.0	.0	36	.0	6.7
-5	.2	1.3	1.3	.2	.0	.0	.0	16	.0	3.0
-6	.2	1.9	.4	.0	.0	.0	.0	13	.0	2.4
-7/-8	.2	1.1	.6	.0	.0	.0	.0	10	.0	1.9
-9/-10	.0	.2	.2	.0	.0	.0	.0	2	.0	.4
-11/-13	.0	.2	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	4	.95			50		1	538	16	522
PCT	.7	14.1	36.2	37.2	9.3	2.2	.2	100.0	3.0	97.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0	.0	2.5
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0	.0	2.5
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0	.0	2.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	2.8	.0	.0	.0	.0	2.8
1-2	.0	.0	.0	.0	.0	.0	.0	1.3	6.6	5.4	.0	.0	.0	13.3
3-4	.0	.0	1.3	.0	.0	.0	1.3	.0	2.5	19.0	1.3	.0	.0	22.8
5-6	.0	.0	2.8	.0	.0	.0	2.8	.0	.3	6.0	.0	.0	.0	6.3
7	.0	.0	1.9	.0	.0	.0	1.9	.0	.0	2.2	1.3	.0	.0	3.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.3	6.0	.0	.0	.0	7.3	1.3	12.3	32.6	2.5	.0	.0	48.7

PERIOD: (OVER-ALL) 1963-1971

JULY
TABLE 18 (CONT)

AREA 0002 CAIRNS
16.95 146.0E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0
1-2	1.3	3.5	3.5	.0	.0	.0	8.2	.0	6.3	.0	.0	.0	.0	.0	6.3
3-4	.0	1.3	6.0	.0	.0	.0	7.3	.0	.0	1.6	.0	.0	.0	.0	1.6
5-6	.0	.9	.0	1.3	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.2	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	6.3	1.6	.0	.0	.0	.0	7.9
TOT PCT	1.3	6.6	11.7	1.3	.0	.0	20.9	.0	.0	.0	.0	.0	.0	.0	.0

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.0	.0	.0	.0	.0	.0	1.3	1.3	.0	.0	.0	.0	.0	2.5	.0
1-2	.0	2.5	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	93.7
TOT PCT	.0	2.5	1.3	.0	.0	.0	3.8	1.3	1.3	.0	.0	.0	.0	.0	.0	.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.6	8.9	.0	.0	.0	.0	16.5	
1-2	2.5	19.0	10.1	.0	.0	.0	31.6	
3-4	.0	3.8	27.8	1.3	.0	.0	32.9	
5-6	.0	1.3	8.9	1.3	.0	.0	11.4	
7	.0	.0	6.3	1.3	.0	.0	7.6	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	79
TOT PCT	10.1	32.9	53.2	3.8	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	9.7	25.2	19.4	10.7	1.9	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	70	3
6-7	.0	.0	3.9	7.8	5.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	5
8-9	.0	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	7
10-11	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	7.8	.0	2.9	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	1
TOTAL	18	26	27	21	10	0	1	0	0	0	0	0	0	0	0	0	0	0	0	103	3
PCT	17.5	25.2	26.2	20.4	9.7	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1898-1969
(OVER-ALL) 1863-1969

TABLE 1

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PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	.0	96.1
NE	4.3	.0	4.3	.0	.0	.0	.0	8.6	1.1	.0	.0	.0	.0	.0	90.3
E	.0	3.3	.0	.0	.0	.0	.0	3.3	2.4	.0	2.9	.0	.0	.0	91.4
SE	2.0	15.1	.2	.0	.0	.0	.0	17.3	.6	.0	3.1	.0	.7	.0	78.3
S	.9	6.6	1.5	.0	.0	.0	.0	9.0	1.1	.0	4.9	.0	.0	.0	85.1
SW	2.7	2.7	1.4	.0	.0	.0	.0	6.8	.0	.0	4.1	.0	2.7	.0	86.5
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	6.5	.0	.0	.0	.0	.0	.0	6.5	.0	.0	.0	.0	.0	.0	93.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.6	9.9	.6	.0	.0	.0	.0	12.0	.9	.0	3.2	.0	.6	.0	83.3
TOT OBS:	822														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00&03	.6	7.6	1.2	.0	.0	.0	.0	9.4	1.2	.0	.6	.0	1.8	.0	87.1
06&09	1.8	10.2	.0	.0	.0	.0	.0	12.0	.7	.0	4.0	.0	.4	.0	82.9
12&15	3.4	6.7	.7	.0	.0	.0	.0	10.7	.0	.0	2.0	.0	.0	.0	87.2
18&21	2.2	11.7	.7	.0	.0	.0	.0	14.6	1.1	.0	5.8	.0	.4	.0	78.1
TOT PCT TOT OBS:	2.0 868	9.6	.6	.0	.0	.0	.0	12.1	.8	.0	3.6	.0	.6	.0	82.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.3	1.6	.7	.0	.0	.0		3.0	4.6		.0	5.6	3.3	4.4	2.9	2.4	2.0	.9
NE	1.3	2.2	.1	*	.0	.0		3.6	4.8		4.5	3.3	3.3	3.5	3.6	3.1	5.1	2.7
E	2.5	7.4	2.6	.1	.0	.0		12.6	7.7		16.1	10.0	15.8	12.1	19.3	12.3	12.3	11.2
SE	5.5	28.4	14.7	1.2	.0	.0		49.8	9.2		34.8	46.8	58.4	59.4	56.4	51.7	42.6	41.5
S	3.8	11.1	4.5	1.0	.0	.0		20.4	8.6		29.5	25.7	15.7	15.4	12.1	17.0	22.9	25.0
SW	1.0	3.5	.4	*	.0	.0		4.9	6.4		11.6	3.9	1.8	.6	.0	5.2	6.6	11.2
W	.3	1.2	.1	.0	.0	.0		1.6	5.7		.0	.6	.0	.6	.0	2.4	3.4	3.6
NW	.6	1.0	.0	.2	.0	.0		1.8	6.4		3.6	2.8	.0	2.3	.0	2.1	1.7	2.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0		.0	1.1	1.8	1.7	5.7	3.5	3.4	1.8
TOT OBS	198	602	241	27	0	0	1068		8.2		28	178	169	172	33	144	175	167
TOT PCT	18.5	56.4	22.6	2.5	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WNO DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	2.6	.4	.0	.0	.0		3.0	4.6	4.9	3.8	2.5	1.5	
NE	2.9	.7	*	.0	.0		3.6	4.8	3.6	3.4	3.2	3.9	
E	6.0	5.6	1.0	.0	.0		12.6	7.7	10.8	13.9	13.8	11.8	
SE	17.7	26.5	5.3	.3	.0		49.8	9.2	45.1	58.9	52.7	42.0	
S	9.2	8.9	2.0	.2	.0		20.4	8.6	26.2	15.5	16.1	23.9	
SW	2.9	1.9	*	.0	.0		4.9	6.4	5.0	1.2	4.2	8.8	
W	1.2	.5	.0	.0	.0		1.6	5.7	.5	.3	2.0	3.5	
NW	1.6	.0	.1	.1	.0		1.8	6.4	2.9	1.2	1.7	1.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.2						2.2	.0	1.0	1.8	3.9	2.6	
TOT OBS	496	475	90	7	0	1068		8.2	206	341	179	342	
TOT PCT	46.4	44.5	8.4	.7	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1898-1969
(OVER-ALL) 1803-1969

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	1.0	14.6	56.3	24.8	3.4	.0	.0	8.9	100.0	206
06609	1.8	17.6	52.5	25.8	2.3	.0	.0	8.4	100.0	341
12615	3.9	16.2	58.1	20.1	1.7	.0	.0	7.6	100.0	179
18621	2.6	16.1	59.4	19.3	2.6	.0	.0	7.8	100.0	342
TOT	2.4	17.4	60.2	24.1	2.7	.0	.0	8.2	100.0	1068
PCT	2.2	16.3	56.4	22.6	2.5	.0	.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	1.7	.0	.0	.0		1.0
NE	.4	1.9	.0	.2		3.4
E	7.2	4.0	5.3	3.0		3.9
SE	18.6	11.4	10.6	3.2		3.2
S	11.4	1.3	7.6	3.0		3.8
SW	2.1	1.7	1.1	.0		3.1
W	.0	.8	.0	.0		4.0
NW	.8	.0	.0	.0		1.0
VAR	.0	.0	.0	.0		.0
CALM	1.7	.0	.8	.0		3.3
TOT OBS	52	25	30	11	118	3.4
TOT PCT	44.1	21.2	25.4	9.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7
.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	2.3
.0	.0	.6	.8	3.2	.0	.6	.6	.0	.0	.0	13.6
.0	.0	2.3	1.1	2.3	3.4	.4	.2	.0	.0	.2	33.9
.0	.0	1.3	3.0	2.8	.0	.6	.0	.0	.0	.6	15.0
.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	4.7
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7
.0	.0	.5	.6	10	5	2	1	0	.0	1	88
.0	.0	4.2	5.1	3.5	4.2	1.7	.8	.0	.8	74.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.8	.8	.8	.8	.8	.8	.8	.8
= OR >5000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
= OR >3500	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
= OR >2000	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6
= OR >1000	15.1	16.0	16.0	16.0	16.0	16.0	16.0	16.0
= OR >600	18.5	21.0	21.0	21.0	21.0	21.0	21.0	21.0
= OR >300	21.8	25.2	25.2	25.2	25.2	25.2	25.2	25.2
= OR >150	21.8	25.2	25.2	25.2	25.2	25.2	25.2	25.2
= OR >0	21.8	25.2	25.2	25.2	25.2	25.2	25.2	25.2
TOTAL	26	30	30	30	30	30	30	30

TOTAL NUMBER OF OBS: 119

PCT FREQ NH <5/8: 74.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.3	25.4	11.9	15.9	7.9	4.8	7.9	6.3	5.6	.0	126

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PERIOD: (PRIMARY) 1898-1969
(OVER-ALL) 1863-1969AREA 0002 CAIRNS
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.2	2.0	1.3	.2	.0	.0	.0	.0	3.8	
	TOT %	.0	.0	.2	2.0	1.5	.2	.0	.0	.0	.0	3.9	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.2	.2	.1	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.0	.2	.2	.1	.0	.0	.0	.0	.0	.5	
5<10	PCP	.0	.1	.3	9.2	1.4	.3	.0	.0	.0	.0	11.3	
	NO PCP	1.6	1.6	7.8	29.4	10.6	2.3	.9	1.3	.0	.4	55.8	
	TOT %	1.6	1.7	8.1	38.5	12.0	2.6	.9	1.3	.0	.4	67.2	
10+	PCP	.0	.1	.1	.0	.2	.0	.0	.1	.0	.0	.6	
	NO PCP	1.5	1.0	4.2	11.9	6.1	1.7	.2	.5	.0	.6	27.6	
	TOT %	1.5	1.1	4.3	11.9	6.4	1.7	.2	.6	.0	.6	28.2	
TOT OBS													
TOT PCT													
		3.1	2.8	12.8	52.9	20.0	4.5	1.1	1.9	.0	1.0	100.0	822

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSAY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.1	.3	.4	.2	.0	.0	.0	.0	1.0	
	4-10	.0	.0	.1	1.1	.2	.0	.0	.0	.0	.0	1.4	
	11-21	.0	.0	.1	.4	.5	.0	.0	.0	.0	.0	1.0	
	22+	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.3	1.8	1.3	.2	.0	.0	.0	.0	3.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.2	.1	.0	.0	.0	.0	.0	.4	
5<10	0-3	.6	.5	2.0	5.0	2.5	.7	.1	.3	.0	.3	12.1	
	4-10	.8	1.0	4.0	19.7	5.6	1.5	.5	.9	.0	.0	34.1	
	11-21	.0	.1	1.1	9.8	2.9	.2	.1	.0	.0	.0	13.3	
	22+	.0	.0	.1	.4	.7	.0	.0	.0	.0	.0	1.2	
	TOT %	1.5	1.6	7.2	34.8	10.9	2.4	.8	1.1	.0	.3	60.7	
10+	0-3	.5	.7	.8	1.0	1.6	.2	.3	.4	.0	1.3	6.1	
	4-10	.8	.9	2.7	8.9	4.0	1.7	.4	.2	.0	.0	19.6	
	11-21	.2	.0	1.1	5.2	2.1	.2	.0	.0	.0	.0	8.8	
	22+	.0	.0	.1	.2	.0	.0	.0	.2	.0	.0	.4	
	TOT %	1.5	1.6	4.6	15.2	7.1	2.2	.7	.9	.0	1.3	35.0	
TOT OBS													
TOT PCT													
		3.0	3.2	12.4	52.3	19.4	4.7	1.5	2.0	.0	1.6	100.0	929

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PERIOD: (PRIMARY) 1898-1969
(OVER-ALL) 1893-1969

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.0	.0	3.6	7.1	10.7	10.7	.0	.0	.0	3.6	35.7	64.3	28
06009	.0	.0	8.6	.0	5.7	2.9	2.9	2.9	.0	.0	22.9	77.1	35
12014	.0	.0	.0	5.9	5.9	2.9	2.9	.0	.0	.0	17.6	82.4	34
18021	.0	.0	3.6	7.1	10.7	.0	.0	.0	.0	.0	21.4	78.6	28
TOT	0	0	5	6	10	5	2	1	0	1	30	95	125
PCT	.0	.0	4.0	4.8	8.0	4.0	1.6	.8	.0	.8	24.0	76.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	.0	2.2	.6	.6	57.5	39.2	101
06009	.0	4.5	.3	.6	64.4	30.1	112
12015	.0	2.9	.0	.0	57.6	39.5	172
18021	.0	4.8	.3	.3	63.9	30.6	110
TOT	0	38	3	4	602	278	915
PCT	.0	3.9	.3	.4	61.7	33.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HR	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
(GMT)						
00003	.0	3.7	11.1	25.9	63.0	27
06009	.0	9.1	9.1	15.2	75.8	33
12015	.0	.0	6.3	12.5	81.3	32
18021	.0	3.7	11.1	11.1	77.8	27
TOT	0	5	11	19	89	119
PCT	.0	4.2	9.2	16.0	74.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	.0	.3	.0	1	.3
80/84	.0	.0	.0	.0	1.6	2.2	1.0	.0	15	4.8
75/79	.0	.0	.3	1.3	4.5	14.0	5.7	3.5	92	29.3
70/74	.0	.0	.3	2.5	7.0	13.4	21.7	6.4	161	51.3
65/69	.0	.0	1.6	.0	1.6	1.3	5.4	3.5	47	13.4
60/64	.0	.0	.0	.0	.0	.0	.6	.3	3	1.0
TOTAL	0	0	7	12	46	97	109	43	314	100.0
PCT	.0	.0	2.2	3.8	14.6	30.9	34.7	13.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.0	.0	.3	.0	.0	.0	.0	.0
80/84	.6	.6	.6	1.0	.9	.3	.0	.6	.0
75/79	2.2	1.4	6.6	13.1	4.4	.6	.0	1.0	.0
70/74	1.0	.7	8.2	27.7	9.1	1.9	.5	1.6	.6
65/69	.6	1.3	1.2	4.0	2.8	1.9	.5	.8	.3
60/64	.0	.0	.0	.5	.5	.0	.0	.0	.0
TOTAL	4.5	4.1	16.6	46.6	17.6	4.8	1.0	4.0	1.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	85	83	80	74	69	67	61	74.4	207
06009	82	81	79	74	68	64	64	73.6	344
12015	82	79	75	72	67	64	62	71.7	192
18021	80	78	76	71	66	63	60	70.9	361
TOT	85	81	76	73	67	64	60	72.6	1104

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)										
00003	.0	3.9	22.1	37.7	26.0	10.4	76	77		
06009	.0	4.4	16.5	37.4	33.0	8.8	77	91		
12015	.0	7.4	11.1	22.2	38.9	20.4	79	54		
18021	.0	8.3	8.3	22.9	43.8	16.7	79	96		
TOT	0	19	46	97	113	43	78	318		

AUGUST

PERIOD: (PRIMARY) 1898-1969
(OVER-ALL) 1863-1969

TABLE 17

AREA 0002 CAIRNS
16.85 145.9FPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
9/10	.0	.0	.0	.1	.3	.0	.1	4	.0	.5
7/8	.0	.0	.1	.1	.4	.1	.0	6	.0	.8
6	.0	.0	.0	.1	.5	.4	.0	8	.0	1.1
5	.0	.0	.1	.4	.8	.0	.0	10	.1	1.2
4	.0	.0	.5	1.0	.8	.3	.0	19	.0	2.6
3	.0	.1	.1	3.3	1.5	.0	.0	37	.0	5.1
2	.0	.3	1.4	4.1	2.9	.1	.0	64	.0	8.8
1	.0	.1	2.3	8.9	2.2	.0	.0	99	.1	13.4
0	.0	.4	7.4	12.2	1.5	.1	.0	158	1.0	20.6
-1	.0	.4	7.3	8.9	.0	.0	.0	121	.8	15.8
-2	.0	1.6	6.4	2.2	.0	.0	.0	75	.5	9.7
-3	.1	2.1	4.9	1.1	.0	.0	.0	60	.7	7.5
-4	.0	1.6	2.7	.8	.0	.0	.0	38	.4	4.8
-5	.3	1.0	.5	.0	.0	.0	.0	13	.1	1.6
-6	.3	.5	.1	.0	.0	.0	.0	7	.0	1.0
-7/-8	.4	.4	.3	.0	.0	.0	.0	8	.1	1.0
-9/-10	.0	.3	.0	.0	.0	.0	.0	2	.0	.3
TOTAL	8	65	251	316	80	9	1	730	29	701
PCT	1.1	8.9	34.4	43.3	11.0	1.2	.1	100.0	4.0	96.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2	.0	.6	.0	.0	.0	.0	.6
1-2	.0	1.2	.0	.0	.0	.0	1.2	1.2	.3	.0	.0	.0	.0	1.5
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	.0	.0	.0	.0	2.4	1.2	.4	.0	.0	.0	.0	2.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.8	.0	.0	.0	.0	1.8	1.2	4.4	.0	.0	.0	.0	5.6
1-2	1.2	10.9	1.2	.0	.0	.0	13.2	.0	11.5	5.9	.0	.0	.0	17.4
3-4	.0	.9	2.4	.0	.0	.0	3.2	.0	4.4	7.1	.0	.0	.0	11.5
5-6	.0	.0	.9	.0	.0	.0	.9	.0	4.1	6.8	.0	.0	.0	10.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.2	.0	.0	1.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	13.5	4.4	.0	.0	.0	19.1	1.2	24.4	20.0	1.2	.0	.0	46.8

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16.85 145.9F

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

[illegible]

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT CBS
<1	4.7	11.8	.0	.0	.0	.0	16.5	
1-2	2.4	27.1	10.6	.0	.0	.0	40.0	
3-4	.0	9.4	10.6	.0	.0	.0	20.0	
5-6	.0	5.9	15.3	.0	.0	.0	21.2	
7	.0	.0	1.2	1.2	.0	.0	2.4	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.1	54.1	37.6	1.2	.0	.0	100.0	85

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

[illegible]

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1887-1969

SEPTEMBER

AREA 0002 CAIRNS
16.65 145.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	3.0	.0	.0	.0	.0	.0	3.0	.0	.0	.0	.0	1.1	.0	95.9
NE	1.3	1.3	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.3	.0	97.0
E	.7	4.7	.7	.0	.0	.0	.0	6.1	.7	.0	3.1	.0	2.2	.0	88.0
SE	1.1	15.8	.4	.0	.0	.0	.0	18.3	.1	.0	3.3	.0	.6	.0	77.6
S	4.8	18.0	.7	.0	.0	.0	.0	23.6	.2	.4	2.9	.0	.3	.0	73.0
SW	6.7	5.0	.8	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	87.5
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	4.6	4.6	.0	.0	.0	.0	.0	9.2	.0	.0	4.6	.0	9.2	.0	77.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	.0	.0	.0	.0	92.3
TOT PCT	2.4	12.1	.5	.0	.0	.0	.0	15.1	.2	.2	2.6	.0	.9	.0	81.1
TOT OBS:	1063														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	1.3	12.9	.0	.0	.0	.0	.0	14.2	.0	.0	3.0	.0	1.3	.0	81.5
06009	2.7	8.0	.7	.0	.0	.0	.0	11.4	.2	.2	2.7	.0	.5	.0	85.2
12015	2.2	11.2	.4	.0	.0	.0	.0	13.8	.4	.0	2.2	.0	.9	.0	82.6
18021	3.1	13.0	.2	.0	.0	.0	.0	16.3	.0	.5	2.1	.0	.7	.0	80.6
TOT PCT	2.5	11.1	.4	.0	.0	.0	.0	13.9	.2	.2	2.5	.0	.8	.0	82.6
TOT OBS:	1291														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.8	4.2	.2	.1	.0	.0		6.3	5.4		6.5	10.9	9.1	5.3	16.4	4.0	3.5	2.0
NE	2.3	4.4	.3	.0	.0	.0		7.0	5.0		1.9	7.4	8.6	10.6	4.3	9.5	5.7	1.7
E	3.3	9.9	2.3	.1	.0	.0		15.7	6.7		11.1	14.0	23.0	15.8	14.7	17.5	12.7	11.5
SE	6.7	26.4	8.7	.6	.0	.0		42.4	7.8		50.9	39.6	43.4	44.0	45.7	41.4	41.5	42.9
S	6.5	10.6	2.8	.9	.0	.0		20.8	6.8		22.2	20.4	12.8	18.1	10.3	20.2	24.9	30.6
SW	1.2	1.1	.4	.0	.0	.0		2.7	5.4		3.7	2.4	.4	1.0	.9	1.8	5.5	5.0
W	.4	.5	.0	.0	.0	.0		.9	4.0		.0	.7	.2	.3	.0	.3	1.2	3.1
NW	.9	1.1	.2	.0	.0	.0		2.1	5.0		.0	2.4	.7	2.0	.9	4.0	2.5	2.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0		3.7	2.2	1.8	3.0	6.9	1.2	2.5	1.0
TOT OBS	324	743	190	22	0	0	1279		6.8		27	229	227	199	29	163	201	204
TOT PCT	25.3	58.1	14.9	1.7	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	4.9	1.3	.2	.0	.0		6.3	5.4	10.4	7.3	5.9	2.7
NE	5.4	1.6	.0	.0	.0		7.0	5.0	6.8	9.5	8.7	3.7
E	9.5	5.7	.4	.0	.0		15.7	6.7	13.7	19.7	17.1	12.1
SE	21.0	18.9	2.5	.0	.0		42.4	7.8	40.8	43.7	42.1	42.2
S	13.5	5.8	1.8	.0	.0		20.8	6.8	20.6	15.3	18.8	27.8
SW	1.9	.6	.1	.0	.0		2.7	5.4	2.5	.7	1.7	5.2
W	.8	.1	.0	.0	.0		.9	4.0	.6	.2	.3	2.2
NW	1.7	.3	.1	.0	.0		2.1	5.0	2.1	1.3	3.5	2.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	2.3	2.3	2.1	1.7
TOT OBS	779	439	60	1	0	1279		6.8	256	426	192	405
TOT PCT	60.9	34.3	4.7	.1	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1882-1969

AREA 0002 CAIRNS
16.65 145.6E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	2.3	20.7	56.6	18.4	2.0	.0	.0	7.1	100.0	256
06009	2.3	20.7	62.0	13.4	1.6	.0	.0	6.8	100.0	426
12015	2.1	22.4	60.4	12.0	3.1	.0	.0	6.9	100.0	192
18021	1.7	27.9	53.8	15.6	1.0	.0	.0	6.4	100.0	403
TOT	2.7	29.7	74.3	19.0	2.2	.0	.0	6.8		1279
PCT	2.1	23.2	58.1	14.9	1.7	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	5.0	.0	2.9	.0		2.5
NE	1.9	1.2	1.0	.0		2.9
E	8.7	3.4	2.9	1.9		2.9
SE	25.5	10.3	10.3	1.9		2.9
S	6.7	2.4	4.8	1.0		3.3
SW	1.0	.0	.2	.0		2.0
W	.0	.0	.0	.0		.0
NW	.2	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	5.8	1.0	.0	.0		.8
TOT OBS	57	19	23	9	104	2.7
TOT PCT	54.8	18.3	22.1	4.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	6.0	
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	
E	.0	.0	.0	1.0	1.0	.0	.0	.0	.0	.0	14.9	
SE	.0	.0	.0	1.7	3.1	.0	.0	.0	.0	.0	43.3	
S	.0	.0	.0	1.2	2.4	.0	.0	.0	.0	.0	11.3	
SW	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	
TOT OBS	.0	.0	.0	5	7	1	.0	.0	.0	.0	91	104
TOT PCT	.0	.0	.0	4.8	6.7	1.0	.0	.0	.0	.0	87.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0
>6500	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.0	.0	.0	.0	.0	.0	.0	.0
>3500	.0	.0	.0	.0	.0	.0	.0	.0
>2000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>1000	6.7	7.6	7.6	7.6	7.6	7.6	7.6	7.6
>600	9.5	12.4	12.4	12.4	12.4	12.4	12.4	12.4
>300	9.5	12.4	12.4	12.4	12.4	12.4	12.4	12.4
>150	9.5	12.4	12.4	12.4	12.4	12.4	12.4	12.4
>0	9.5	12.4	12.4	12.4	12.4	12.4	12.4	12.4
TOTAL	10	13	13	13	13	13	13	13

TOTAL NUMBER OF OBS: 104

PCT FREQ NH <5/8: 87.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	20.2	26.6	16.5	13.8	9.2	4.6	5.5	.9	2.8	.0	109

SEPTEMBER

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1882-1969

AREA 0002 CAIRNS
16.65 145.6E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.7
	NO PCP	.0	.0	.4	1.4	.6	.0	.0	.1	.0	.0	.0	2.5
	TOT %	.0	.0	.4	1.7	.9	.0	.0	.1	.0	.0	.0	3.2
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.2	*	.0	.0	.0	.0	.0	.0	.0	.3
	TOT %	.0	.0	.2	*	.0	.0	.0	.0	.0	.0	.0	.3
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.3
	TOT %	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.3
5<10	PCP	.2	.2	.8	7.6	4.8	.3	.0	.2	.0	.0	.0	14.2
	NO PCP	5.1	5.9	9.5	26.0	13.9	1.7	.4	1.4	.0	.3	.3	64.3
	TOT %	5.3	6.1	10.4	33.6	18.7	2.1	.4	1.6	.0	.3	.3	78.5
10+	PCP	.0	.0	.0	*	.1	*	.0	.0	.0	.0	.0	.2
	NO PCP	1.0	.9	2.8	7.9	2.7	.7	.3	.4	.0	.9	.9	17.6
	TOT %	1.0	.9	2.8	7.9	2.8	.8	.3	.4	.0	.9	.9	17.8
TOT OBS		1063											
TOT PCT		6.3	7.0	13.9	43.5	22.6	2.8	.7	2.0	.0	1.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1
1/2<1	0-3	.0	.0	.2	.1	.2	.0	.0	.1	.0	.0	.0	.6
	4-10	.0	.0	.1	1.2	.4	.0	.0	.0	.0	.0	.0	1.7
	11-21	.0	.0	.1	.2	.2	.0	.0	.0	.0	.0	.0	.5
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.4	1.6	.9	.0	.0	.1	.0	.0	.0	2.9
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.0	.2
	11-21	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.3
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.3
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
	22+	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.4
5<10	0-3	1.6	2.3	2.7	6.2	6.3	1.0	*	.7	.0	.3	.3	21.0
	4-10	3.2	3.5	6.1	20.4	8.8	.8	.3	.7	.0	.0	.0	43.7
	11-21	.2	.2	.8	4.0	1.4	.2	.0	.1	.0	.0	.0	6.8
	22+	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	1.3
	TOT %	4.9	5.9	9.5	31.1	17.3	2.0	.4	1.5	.0	.3	.3	73.0
10+	0-3	.2	.1	.4	.5	.3	.3	.3	.1	.0	1.4	.3	3.7
	4-10	1.1	.9	2.8	5.1	1.5	.3	.2	.5	.0	.0	.0	12.5
	11-21	.1	*	1.2	4.3	1.2	.1	.0	.1	.0	.0	.0	7.0
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	1.5	1.1	4.4	10.0	3.0	.8	.5	.7	.0	1.4	.3	23.3
TOT OBS		1169											
TOT PCT		6.4	7.0	14.6	43.0	21.4	2.8	.9	2.2	.0	1.7	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1882-1969

AREA 0002 CAIRNS
16.65 145.6E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	7.7	.0	.0	.0	.0	.0	7.7	92.3	26
06009	.0	.0	.0	6.7	6.7	.0	.0	.0	.0	.0	13.3	86.7	30
12015	.0	.0	.0	11.1	7.4	.0	.0	.0	.0	.0	18.5	81.5	27
18021	.0	.0	.0	.0	4.2	4.2	.0	.0	.0	.0	8.3	91.7	24
TOT	0	0	0	5	7	1	0	0	0	0	13	94	107
PCT	.0	.0	.0	4.7	6.5	.9	.0	.0	.0	.0	12.1	87.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	3.3	.4	.4	69.0	26.9	245
06009	.0	2.9	.0	.4	78.3	18.4	451
12015	.4	2.4	.4	.0	75.1	21.6	245
18021	.0	2.4	.4	.4	80.0	16.7	456
TOT	1	38	4	5	1071	278	1397
PCT	.1	2.7	.3	.4	76.7	19.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	7.7	92.3	26
06009	.0	.0	6.9	6.9	86.2	29
12015	.0	.0	11.1	7.4	81.5	27
18021	.0	.0	.0	8.7	91.3	23
TOT	0	0	5	8	92	105
PCT	.0	.0	4.8	7.6	87.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	1.3	3.0	1.3	1.3	16	6.9
75/79	.0	.0	.0	.0	4.7	14.6	12.9	7.7	95	40.8
70/74	.0	.0	.9	3.4	4.7	13.3	17.6	8.6	113	48.5
65/69	.0	.0	.0	.0	.0	.0	1.3	2.6	9	3.9
TOTAL	0	0	2	10	25	72	77	47	233	100.0
PCT	.0	.0	.9	4.3	10.7	30.9	33.0	20.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.4	.4	.6	1.5	.4	1.0	.8	.9	.0	.9
4.1	3.2	7.0	17.9	3.9	.9	.0	2.1	.0	1.7
2.9	2.7	7.9	20.8	8.5	1.7	.4	2.3	.0	1.3
.0	.0	.0	1.1	1.4	.1	.0	.9	.0	.4
1.4	6.3	15.6	41.3	14.2	3.6	1.2	6.1	.0	4.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	83	81	76	72	70	69	76.6	271
06009	89	84	81	76	71	69	68	76.0	483
12015	83	80	78	74	68	63	62	73.5	258
18021	88	80	78	73	68	64	62	72.9	484
TOT	89	82	80	75	69	65	62	74.7	1496

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	8.2	16.3	30.6	30.6	14.3	77	49
06009	.0	7.1	12.9	30.0	32.9	17.1	78	70
12015	.0	3.9	13.7	27.5	33.3	21.6	80	51
18021	.0	2.6	5.2	31.2	35.1	26.0	82	77
TOT	0	13	28	74	82	50	80	247

SEPTEMBER

PERIOD: (PRIMARY) 1897-1969
(OVER-ALL) 1882-1969

TABLE 17

AREA 0002 CAIRNS
16.6S 145.6E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
7/8	.0	.0	.0	.2	.0	.2	.2	.0	6	.0	.5
6	.0	.0	.0	.0	.3	.3	.0	.0	6	.0	.5
5	.0	.0	.0	.0	1.0	.6	.1	.0	19	.0	1.7
4	.0	.0	.0	.6	2.5	.9	.0	.0	45	.1	3.9
3	.0	.0	.0	.7	3.2	.5	.0	.0	50	.1	4.3
2	.0	.0	.4	3.4	4.4	.7	.0	.0	101	.4	8.5
1	.0	.0	.4	5.1	4.9	.3	.0	.0	121	.5	10.2
0	.0	.0	1.1	9.8	6.6	.4	.0	.0	200	.9	16.8
-1	.0	.1	2.5	9.7	3.7	.2	.0	.0	182	.4	15.7
-2	.0	.1	4.9	6.4	1.7	.0	.0	.0	147	.0	13.0
-3	.0	.2	5.1	2.7	.2	.0	.0	.0	92	.1	8.1
-4	.0	.8	3.6	2.0	.0	.0	.0	.0	73	.2	6.3
-5	.0	.7	2.5	.6	.0	.0	.0	.0	48	.0	3.8
-6	.0	.6	1.0	.0	.0	.0	.0	.0	18	.0	1.6
-7/-8	.3	.8	.4	.0	.0	.0	.0	.0	16	.0	1.4
-9/-10	.3	.0	.0	.0	.0	.0	.0	.0	3	.0	.3
-11/-13	.3	.0	.0	.0	.0	.0	.0	.0	3	.0	.3
TOTAL	9	37	246	465	321	45	2	2	1128	31	1097
PCT	.8	3.3	21.8	41.2	28.5	4.0	.3	.2	100.0	2.7	97.3

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.4	1.4	.0	.0	.0	.0	1.8
1-2	.0	3.9	.0	.0	.0	.0	3.9	.0	3.2	.0	.0	.0	.0	3.2
3-4	.0	5.7	.0	.0	.0	.0	5.7	.0	.4	.0	.0	.0	.0	.4
5-6	.0	.0	1.4	1.4	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.4	5.0	.0	.0	.0	.0	5.4
TOT PCT	.0	10.7	1.4	1.4	.0	.0	13.6	.0	15.7	25.4	.0	.0	.0	41.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.1	.0	.0	.0	.0	.0	1.1	.0	3.6	1.4	.0	.0	.0	5.0
1-2	.0	5.7	1.4	.0	.0	.0	7.1	.0	7.5	4.3	.0	.0	.0	11.8
3-4	.0	1.1	1.4	.0	.0	.0	2.5	.0	4.3	18.9	.0	.0	.0	23.2
5-6	.0	.0	3.9	.0	.0	.0	3.9	.0	.4	.4	.0	.0	.0	.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	15.7	25.4	.0	.0	.0	41.1
TOT PCT	1.1	6.8	6.8	.0	.0	.0	14.6	.0	15.7	25.4	.0	.0	.0	41.1

PERIOD: (OVER-ALL) 1963-1969

SEPTEMBER

AREA 0002 CAIRNS
16.65 145.6E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	2.1	.0	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0
1-2	1.4	2.5	.0	.0	.0	.0	3.9	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.4	6.8	.0	.0	.0	8.2	.0	.0	.0	.0	.0	.0	.4
5-6	.0	1.1	1.1	.0	.0	.0	2.1	.0	.0	.4	.0	.0	.0	.0
7	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
TOT PCT	1.4	7.1	10.4	.0	.0	.0	18.9	.0	.0	.4	.0	.0	.0	.4

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	94.3
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	8.5	8.5	1.4	.0	.0	.0	18.3	
1-2	1.4	22.5	5.6	.0	.0	.0	29.6	
3-4	.0	12.7	26.8	.0	.0	.0	39.4	
5-6	.0	1.4	7.0	1.4	.0	.0	9.9	
7	.0	.0	1.4	.0	.0	.0	1.4	
8-9	.0	.0	1.4	.0	.0	.0	1.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	71
TOT PCT	9.9	42.1	43.7	1.4	.0	.0	100.0	

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	9.6	30.9	31.9	8.5	2.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	79	3
6-7	.0	.0	3.2	2.1	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	8.5	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	94	3
TOTAL	17	29	34	10	2	1	1	0	0	0	0	0	0	0	0	0	0	0	0	100.0	
PCT	18.1	30.9	35.2	10.6	2.1	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		

OCTOBER

PERIOD: (PRIMARY) 1895-1969
(OVER-ALL) 1885-1969AREA 0002 CAIRNS
16.65 145.6E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	ND SIG WEA
N	.0	1.1	.0	.0	.0	.0	1.1	2.3	.0	3.4	5.1	.0	1.7	.0	87.5
NE	.0	.0	1.3	.0	.0	.0	.0	1.3	.0	.7	6.0	.0	5.3	.0	86.7
E	1.3	3.4	.5	.0	.0	.0	.0	5.2	.0	.3	3.4	.0	.5	.0	90.6
SE	.4	7.4	.9	.0	.0	.0	.0	8.8	.3	.3	2.8	.0	.4	.0	87.5
S	3.8	7.1	1.4	.0	.0	.0	.0	12.2	.0	.0	3.8	.0	.0	.0	84.0
SW	.0	4.7	.0	.0	.0	.0	.0	4.7	.0	.0	16.5	.0	2.4	.0	76.5
W	11.8	.0	.0	.0	.0	.0	.0	11.8	.0	11.8	29.4	.0	5.9	.0	52.9
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	.0	96.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.0	4.9	.8	.0	.0	.0	.1	6.8	.1	.7	4.0	.0	1.1	.0	87.5
TOT OBS:	902														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	ND SIG WEA
00003	.5	4.4	.5	.0	.0	.0	.0	5.4	.0	.0	3.9	.0	1.0	.0	89.7
06009	.8	2.8	.6	.0	.0	.0	.3	4.5	.3	1.1	4.2	.0	1.1	.0	88.8
12015	1.0	4.2	1.0	.0	.0	.0	.0	6.3	.0	2.6	3.7	.0	.0	.0	88.0
18021	1.6	8.5	.5	.0	.0	.0	.3	11.0	.0	.3	4.1	.0	1.4	.0	83.6
TOT PCT TOT OBS:	1.1 1117	5.2	.6	.0	.0	.0	.2	7.1	.1	.9	4.0	.0	1.0	.0	87.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	3.8	5.8	.5	.0	.0	.0		10.0	4.8		.0	11.9	12.4	13.7	13.3	9.6	9.1	3.7
NE	3.0	5.6	.3	.1	.0	.0		9.1	4.9		.0	8.4	9.8	11.3	18.3	12.1	6.3	6.6
E	3.8	14.8	3.4	.1	.0	.0		22.1	7.3		34.1	19.2	28.3	22.6	39.2	20.2	22.1	15.0
SE	5.9	25.7	8.0	.3	.0	.0		40.0	7.7		48.9	43.2	40.7	41.0	17.5	42.5	37.1	38.1
S	3.2	6.1	.7	.0	.0	.0		10.0	5.5		8.0	8.9	3.9	6.6	5.0	6.2	12.2	21.4
SW	1.1	1.0	*	.0	.0	.0		2.1	4.1		4.5	1.9	.2	.7	.0	3.1	3.4	3.8
W	.2	.7	.0	.0	.0	.0		.9	5.2		.0	.0	.0	.0	.0	1.2	1.7	2.7
NW	1.1	2.1	.0	.0	.0	.0		3.1	4.8		.0	3.2	1.2	1.8	.0	2.5	4.8	6.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6							2.6	.0		4.5	3.2	1.4	2.3	6.7	2.5	3.4	2.2
TOT OBS	263	706	148	6	0	0	1143		6.5		22	183	207	177	30	161	178	183
TOT PCT	24.8	61.8	12.9	.5	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	6.0	2.0	.0	.0	.0		10.0	4.8	10.6	13.0	10.2	6.4	
NE	7.8	1.2	.2	.0	.0		9.1	4.9	7.5	10.5	13.1	6.4	
E	11.2	9.7	1.1	.0	.0		22.1	7.3	20.8	25.7	23.2	18.5	
SE	19.6	18.2	2.2	.0	.0		40.0	7.7	43.8	40.8	38.6	37.6	
S	7.2	2.5	.3	.0	.0		10.0	5.5	8.8	6.3	6.0	16.9	
SW	1.9	.3	.0	.0	.0		2.1	4.1	2.2	.5	2.6	3.6	
W	.7	.2	.0	.0	.0		.9	5.2	.0	.0	1.0	2.2	
NW	2.4	.7	.0	.0	.0		3.1	4.8	2.9	1.5	2.1	5.6	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.6						2.6	.0	3.4	1.8	3.1	2.8	
TOT OBS	701	398	43	1	0	1143		6.5	207	384	191	361	
TOT PCT	61.3	34.8	3.8	.1	.0		100.0		100.0	100.0	100.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1898-1969
(OVER-ALL) 1885-1969AREA 0002 CAIRNS
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00003	3.4	24.2	60.4	11.6	.5	.0	.0	6.3	100.0	207
06009	1.8	20.8	64.6	12.2	.5	.0	.0	6.6	100.0	384
12015	3.1	17.8	60.7	17.3	1.0	.0	.0	7.0	100.0	191
18021	2.8	24.7	60.1	12.2	.3	.0	.0	6.2	100.0	361
TOT	30	253	706	146	6	0	0	6.5		1143
PCT	2.6	22.1	61.8	12.9	.5	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	6.4	1.0	1.8	.0		2.2
NE	5.9	3.1	1.3	1.0		2.7
E	16.8	9.2	6.9	2.0		3.0
SE	12.5	14.5	5.6	.0		3.0
S	2.3	.8	.0	1.0		3.2
SW	.0	.0	1.0	.0		6.0
W	.0	.0	.0	.0		.0
NW	1.0	1.0	.0	.0		2.5
VAR	.0	.0	.0	.0		.0
CALM	2.0	.0	2.0	.0		3.2
TOT OBS	46	29	19	4	98	2.9
TOT PCT	46.9	29.6	19.4	4.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	8.4	
NE	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	9.9	
E	.0	.0	.0	1.0	3.1	.0	.8	.0	.0	.0	30.1	
SE	.0	.0	1.0	.0	1.0	1.0	1.3	.0	.0	.0	28.3	
S	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	3.8	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0	2.0	
TOT OBS	0	0	1	1	8	1	2	0	0	1	84	98
TOT PCT	.0	.0	1.0	1.0	8.2	1.0	2.0	.0	.0	1.0	85.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>4000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>3500	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
>2000	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
>1000	11.1	11.1	12.1	12.1	12.1	12.1	12.1	12.1
>800	11.1	12.1	13.1	13.1	13.1	13.1	13.1	13.1
>700	12.1	13.1	14.1	14.1	14.1	14.1	14.1	14.1
>150	12.1	13.1	14.1	14.1	14.1	14.1	14.1	14.1
>0	12.1	13.1	14.1	14.1	14.1	14.1	14.1	14.1
TOTAL	12	13	14	14	14	14	14	14

TOTAL NUMBER OF OBS: 99

PCT FREQ NH <5/8: 85.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	12.9	26.7	22.8	18.8	5.0	6.9	4.0	1.0	2.0	.0	101

PERIOD: (PRIMARY) 1898-1969
(LIVER-ALL) 1885-1969

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.5	.4	.7	1.3	.4	.4	.3	.0	.0	.0	4.0	
	TOT %	.5	.4	.7	1.4	.6	.4	.3	.0	.0	.0	4.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	.4	.2	.1	.0	.1	.1	.1	.0	.0	1.0	
	TOT %	.2	.4	.2	.1	.0	.1	.1	.1	.0	.0	1.0	
2<5	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	
5<10	PCP	.1	.1	.9	3.5	1.2	.1	.1	.0	.0	.0	6.1	
	NO PCP	5.5	5.0	13.7	30.0	8.3	1.2	.5	1.8	.0	.6	66.6	
	TOT %	5.7	5.2	14.6	33.6	9.5	1.3	.6	1.8	.0	.6	72.7	
10+	PCP	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	3.3	2.2	5.7	6.6	1.6	.6	.0	.8	.0	.4	21.4	
	TOT %	3.4	2.2	5.8	6.6	1.7	.6	.0	.8	.0	.4	21.7	
TOT OBS													902
TOT PCT		9.8	8.3	21.3	41.8	11.8	2.4	.9	2.8	.0	1.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSRY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.4	.3	.3	.1	.1	.1	.0	.0	.0	.0	.7	
	4-10	.4	.3	.3	1.1	.4	.2	.2	.0	.0	.0	3.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.4	.4	.6	1.2	.5	.3	.2	.0	.0	.0	3.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.6	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.3	.1	.0	.0	.0	.0	.0	.0	.0	1.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.1	.4	.0	.0	.0	.0	.0	.0	.6	
5<10	0-3	1.5	2.0	2.7	5.5	2.6	.6	.1	.5	.0	.5	16.0	
	4-10	3.3	2.5	8.2	19.1	5.3	.5	.4	1.2	.0	.0	40.6	
	11-21	.3	.0	2.0	4.9	.4	.0	.0	.0	.0	.0	7.8	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	5.0	4.6	12.9	29.8	8.4	1.1	.5	1.7	.0	.5	64.6	
10+	0-3	2.3	.6	1.1	.8	.7	.4	.0	.5	.0	1.4	7.8	
	4-10	2.3	1.8	6.2	5.8	.8	.2	.0	1.0	.0	.0	18.1	
	11-21	.2	.2	1.1	2.5	.3	.0	.0	.0	.0	.0	4.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	4.8	2.6	8.4	9.2	1.8	.7	.0	1.5	.0	1.4	30.2	
TOT OBS													1030
TOT PCT		10.4	8.0	22.2	40.6	10.7	2.2	.8	3.3	.0	1.8	100.0	

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AREA 0002 CAIRNS
16.65 145.6EPERIOD: (PRIMARY) 1898-1969
(OVER-ALL) 1885-1969

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	13.0	.0	.0	.0	.0	.0	13.0	87.0	23
06009	.0	.0	3.6	.0	3.6	.0	.0	.0	.0	.0	7.1	92.9	28
12015	.0	.0	.0	.0	3.6	3.6	.0	.0	.0	.0	7.1	92.9	28
18021	.0	.0	.0	4.5	13.6	.0	9.1	.0	.0	4.5	31.8	68.2	22
TOT	0	0	1	1	8	1	2	0	0	1	14	87	101
PCT	.0	.0	1.0	1.0	7.9	1.0	2.0	.0	.0	1.0	13.9	86.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	3.7	.5	.9	65.6	29.3	215
06009	.0	3.9	.7	.7	70.8	23.8	407
12015	.0	3.7	.0	.5	66.4	29.5	217
18021	.0	3.9	1.7	.0	71.7	22.7	406
TOT	0	48	11	6	864	316	1245
PCT	.0	3.9	.9	.5	69.4	25.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	.0	4.3	13.0	82.6	23
06009	.0	3.6	7.1	.0	92.9	28
12015	.0	.0	.0	7.1	92.9	28
18021	.0	.0	5.0	30.0	65.0	20
TOT	0	1	4	11	84	99
PCT	.0	1.0	4.0	11.1	84.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.4	.0	.8	.4	.4	1.3	8	3.4
80/84	.0	.0	.0	2.1	5.1	4.6	4.2	3.0	45	19.0
75/79	.0	.0	.0	1.3	7.6	28.3	22.8	9.3	164	69.2
70/74	.0	.0	.0	.0	1.3	3.0	3.0	1.3	20	8.4
TOTAL	0	0	1	8	35	86	72	35	237	100.0
PCT	.0	.0	.4	3.4	14.8	36.3	30.4	14.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.9	.6	1.1	.6	.0	.0	.0	.1	.0	.0
80/84	2.0	2.1	5.1	6.2	.9	.4	.0	.9	.0	1.3
75/79	10.2	7.4	18.7	23.7	2.8	.6	.0	4.0	.0	1.7
70/74	1.1	.8	3.0	1.6	.9	.4	.0	.6	.0	.0
TOTAL	14.2	11.0	27.7	32.2	4.7	1.5	.0	5.7	.0	3.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	88	85	79	75	72	71	79.5	238
06009	91	87	84	78	75	73	72	78.5	443
12015	82	81	80	76	73	70	69	76.2	236
18021	86	82	80	76	71	69	67	76.1	441
TOT	91	86	82	77	73	70	67	77.5	1358

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	6.0	28.0	38.0	14.0	14.0	75	50		
06009	.0	6.9	15.3	34.7	29.2	13.9	77	72		
12015	.0	.0	15.6	31.1	40.0	13.3	80	45		
18021	.0	1.2	5.0	41.7	34.5	16.7	81	84		
TOT	0	9	37	93	75	37	79	251		

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PERIOD: (PRIMARY) 1898-1969
(OVER-ALL) 1885-1969

TABLE 17

AREA 0002 CAIRNS
16.65 145.6E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.1	.1	2	.0	.2
9/10	.0	.0	.0	.0	.0	.3	.0	3	.0	.3
7/8	.0	.0	.0	.1	.4	.3	.0	8	.0	.9
6	.0	.0	.0	.0	.3	.6	.0	8	.0	.9
5	.0	.0	.0	.8	1.1	.1	.0	18	.0	2.0
4	.0	.0	.1	1.6	1.3	.1	.0	28	.0	3.1
3	.0	.0	.2	2.7	1.5	.1	.0	40	.7	3.8
2	.0	.0	.7	5.9	1.8	.1	.0	76	1.1	7.4
1	.0	.0	.9	10.4	.9	.0	.0	109	.9	11.3
0	.0	.0	5.6	17.6	.7	.0	.0	213	.9	23.0
-1	.0	.0	4.3	10.8	.4	.0	.0	138	.3	15.2
-2	.0	.2	4.7	5.8	.0	.0	.0	140	.6	15.2
-3	.1	.2	3.6	1.7	.1	.0	.0	51	.0	5.7
-4	.0	.6	2.4	.1	.0	.0	.0	27	.1	2.9
-5	.0	1.2	.8	.1	.0	.0	.0	19	.0	2.1
-6	.0	.3	.7	.0	.0	.0	.0	9	.1	.9
-7/-8	.0	.1	.0	.0	.0	.0	.0	1	.1	.0
-9/-10	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	257	77	1	16	891	43	848		
PCT	.1	2.8	28.8	57.7	8.6	1.8	.1	100.0	4.8	95.2

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	3.7	.0	.0	.0	.0	3.7	.0	.7	.0	.0	.0	.0	.7
1-2	.0	1.3	.0	.0	.0	.0	1.3	.0	3.0	1.3	.0	.0	.0	9.3
3-4	.0	.0	2.3	.0	.0	.0	2.3	.0	.3	.3	.0	.0	.0	.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.0	2.3	.0	.0	.0	7.3	.0	9.0	1.7	.0	.0	.0	10.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.0	1.0	.0	.0	.0	3.3	.0	1.3	.3	.0	.0	.0	1.7
1-2	.0	15.7	2.7	.0	.0	.0	18.3	.0	15.7	4.0	.0	.0	.0	19.7
3-4	.0	5.7	2.3	.0	.0	.0	8.0	.0	.7	7.7	.0	.0	.0	8.3
5-6	.0	.0	2.3	.0	.0	.0	2.3	.0	.3	5.7	.0	.0	.0	6.0
7	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	1.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	22.3	9.7	.0	.0	.0	33.3	.0	18.0	19.0	.0	.0	.0	37.0

PERIOD: (OVER-ALL) 1963-1969

OCTOBER
TABLE 18 (CONT)

AREA 0002 CAIRNS
16.65 145.6F

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	1.3	.0	.0	.0	.0	1.3	1.3	.0	.0	.0	.0	.0	.0	1.3
1-2	.0	2.0	.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	2.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	1.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
87+	.0	.0	.0	.0	.0	.0	6.3	1.3	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.3	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	1.3	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	97.3
87+	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	7.8	7.8	1.3	.0	.0	.0	16.9	
1-2	.0	42.9	7.8	.0	.0	.0	50.6	
3-4	.0	6.3	14.3	.0	.0	.0	20.8	
5-6	.0	1.3	7.8	.0	.0	.0	9.1	
7	.0	.0	1.3	.0	.0	.0	1.3	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	1.3	.0	.0	.0	1.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.8	58.4	33.8	.0	.0	.0	100.0	77

PERIOD: (OVER-ALL) 1950-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	4-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	13.6	34.1	13.6	8.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	63
6-7	.0	2.3	6.8	3.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12
8-9	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
10-11	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
12-13	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9
INDFT	5.7	1.1	1.1	1.1	1.1	1.1	2	0	0	0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	88
TOTAL	17	33	22	12	1	2	0	0	0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
PCT	19.3	37.5	25.0	13.6	1.1	2.3	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	

PERIOD: (PRIMARY) 1905-1969
(OVER-ALL) 1884-1969

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	2.2	3.0	.0	.0	.0	.0	.0	5.2	.0	3.0	9.1	.0	.9	.0	83.0
NE	1.3	3.0	.0	.0	.0	.0	.0	4.2	.0	2.1	7.2	.0	1.1	.0	86.7
E	1.8	5.6	.7	.0	.0	.0	.0	8.1	.0	1.4	6.1	.0	1.1	.0	84.2
SE	1.8	13.0	.1	.0	.0	.0	.0	14.9	.5	.5	2.5	.0	.3	.0	81.3
S	15.9	20.6	.7	.0	.0	.0	.0	37.2	.0	.7	1.7	.0	.7	.0	59.8
SW	17.2	15.1	4.3	.0	.0	.0	.0	36.6	.0	4.3	10.8	.0	.0	.0	52.7
W	8.3	4.2	.0	.0	.0	.0	.0	12.5	.0	25.0	.0	.0	.0	.0	70.8
NW	.0	4.9	.0	.0	.0	.0	.0	4.9	.0	.0	16.4	.0	.0	.0	78.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.3	.0	89.7
TOT PCT	4.1	9.8	.4	.0	.0	.0	.0	14.2	.2	1.5	4.8	.0	.9	.0	79.1
TOT OBS:	1786														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	3.1	5.8	.0	.0	.0	.0	.0	8.9	.0	.4	4.0	.0	.4	.0	86.6
06009	2.7	5.8	.0	.0	.0	.0	.0	8.5	.0	2.9	6.3	.0	.9	.0	82.3
12015	5.0	12.1	.8	.0	.0	.0	.0	18.0	.4	4.2	4.6	.0	1.3	.0	72.2
18021	5.5	13.4	.5	.0	.0	.0	.0	19.3	.2	.9	4.8	.0	.7	.0	74.5
TOT PCT	4.1	9.4	.3	.0	.0	.0	.0	13.8	.1	2.1	5.1	.0	.8	.0	78.9
TOT OBS:	1350														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	2.6	7.2	.4	.0	.0	.0		10.3	5.4	12.5	13.9	12.2	11.3	15.6	5.8	7.8	8.7	
NE	2.7	8.4	.5	.0	.0	.0		11.5	5.4	9.4	11.8	13.6	10.1	28.3	11.6	10.7	8.4	
E	3.3	15.5	2.6	.1	.0	.0		21.5	6.8	15.6	21.5	25.5	23.6	15.8	19.7	21.6	17.1	
SE	4.2	25.1	6.5	.1	.0	.0		35.9	7.6	34.4	37.1	41.0	39.3	30.0	36.3	28.0	34.0	
S	3.5	7.5	.9	.1	.0	.0		12.0	5.3	11.5	8.8	6.0	9.8	5.8	13.7	17.6	18.8	
SW	.7	1.4	.0	.0	.0	.0		2.1	4.1	4.2	.5	.0	.7	.8	2.6	5.1	3.8	
W	.4	.6	.0	.0	.0	.0		1.0	4.1	.0	.9	.0	.0	.0	1.8	2.0	1.9	
NW	1.3	1.7	.3	.0	.0	.0		3.3	5.2	8.3	3.1	1.2	3.3	.0	4.7	3.8	4.1	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.5							2.5	.0	4.2	2.4	.4	1.9	3.3	3.7	3.6	3.3	
TOT OBS	279	889	149	3	0	0	1320		6.3	24	212	243	212	30	190	225	184	
TOT PCT	21.1	67.3	11.3	.2	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00					06	12	18	21	
N	7.6	2.7	*	.0	.0		10.3	5.4	13.8	11.8	7.2	8.2		
NE	8.5	2.9	.1	.0	.0		11.5	5.4	11.5	12.0	13.9	9.7		
E	12.8	8.0	.7	.0	.0		21.5	6.8	20.9	24.6	19.2	19.6		
SE	17.5	16.7	1.7	.0	.0		35.9	7.6	36.9	40.2	35.5	30.7		
S	9.7	2.1	.2	.0	.0		12.0	5.3	9.1	7.7	12.6	18.1		
SW	2.0	.1	.0	.0	.0		2.1	4.1	.8	.3	2.4	4.5		
W	.9	.1	.0	.0	.0		1.0	4.1	.8	.0	1.6	2.0		
NW	2.5	.8	*	.0	.0		3.3	5.2	3.6	2.2	4.1	3.9		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	2.5						2.5	.0	2.5	1.1	3.6	3.4		
TOT OBS	845	438	37	0	0	1320		6.3	236	455	220	409		
TOT PCT	64.0	33.2	2.8	.0	.0		100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1905-1969
(OVER-ALL) 1884-1969

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOURLY	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	2.5	17.4	66.1	13.6	.4	.0	.0	.0	6.4	100.0	236
0600Z	1.1	17.1	71.0	10.8	.0	.0	.0	.0	6.6	100.0	453
1201Z	3.6	14.1	70.9	10.5	.9	.0	.0	.0	6.5	100.0	220
1802Z	3.4	23.5	62.1	11.0	.0	.0	.0	.0	5.9	100.0	409
TOT	33	246	889	149	.9	.0	.0	.0	6.3		1320
PCT	2.5	18.6	67.3	11.3	.2	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.8	4.4	2.5	1.8		4.0
NE	10.3	5.3	3.2	1.8		2.8
E	11.9	3.0	3.4	.9		2.6
SE	19.3	11.2	6.4	.0		2.7
S	.7	.9	2.1	.9		3.4
SW	.0	.9	.2	.0		4.6
W	.0	.0	.0	.0		.0
NW	.9	.0	.9	.0		3.5
VAR	.0	.0	.0	.0		.0
CALM	2.8	.9	.0	.0	109	1.5
TOT OBS	53	29	21	.4	109	3.0
TOT PCT	48.6	26.6	19.3	5.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM) >4/8
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	200 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.7	.9	.9	.0	.0	.0	.0	8.9	
NE	.0	.0	.0	.2	1.8	.0	.0	.0	.0	.0	18.6	
E	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	18.3	
SE	.0	.0	.0	1.8	.0	.9	.0	.0	.0	.0	34.2	
S	.0	.0	.0	.7	1.8	.0	.9	.0	.0	.0	1.6	
SW	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.9	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	
TOT OBS	0	0	0	5	0	0	0	0	0	0	95	109
TOT PCT	.0	.0	.0	4.6	4.6	2.8	.9	.0	.0	.0	87.2	100.0

TABLE 7

CUMULATIVE PCT FRQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.0	.0	.0	.0	.0	.0	.0	.0
>3500	.0	.9	.9	.9	.9	.9	.9	.9
>2000	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
>1000	7.1	8.0	8.0	8.0	8.0	8.0	8.0	8.0
>600	10.6	12.4	12.4	12.4	12.4	12.4	12.4	12.4
>400	10.6	12.4	12.4	12.4	12.4	12.4	12.4	12.4
>150	10.6	12.4	12.4	12.4	12.4	12.4	12.4	12.4
>0	10.6	12.4	12.4	12.4	12.4	12.4	12.4	12.4
TOTAL	12	14	14	14	14	14	14	14

TOTAL NUMBER OF OBS: 113

PCT FREQ NM <5/8: 87.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	8 OBSCD	TOTAL OBS
14.3	22.7	24.4	15.1	10.9	5.9	4.2	1.7	.8	.0	119

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PERIOD: (PRIMARY) 1905-1969
(OVER-ALL) 1884-1969AREA 0002 CAIRNS
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.5	.5
	NO PCP	.9	.3	.7	1.0	.2	.2	.0	.5	.0	.0	3.8	3.8
	TOT %	.9	.3	.9	1.1	.4	.2	.0	.5	.0	.0	4.2	4.2
1<2	PCP	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	.1
	NO PCP	.0	.2	.1	.0	.1	.0	.0	.0	.0	.1	.5	.5
	TOT %	.0	.2	.1	*	.1	.0	.0	.0	.0	.1	.6	.6
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
5<10	PCP	.6	.5	1.3	5.1	5.0	.8	.1	.1	.0	.0	13.5	13.5
	NO PCP	7.2	9.6	12.5	21.6	7.1	.9	.8	1.6	.0	1.4	59.0	59.0
	TOT %	7.8	10.2	13.8	26.9	12.1	1.7	.9	1.7	.0	1.4	72.6	72.6
10+	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	NO PCP	1.9	4.2	5.5	7.4	1.2	.2	.2	.6	.0	1.2	22.5	22.5
	TOT %	1.9	4.2	5.6	7.4	1.2	.2	.2	.6	.0	1.2	22.6	22.6
TOT OBS		1086											
TOT PCT		10.6	10.9	20.4	35.5	13.9	2.1	1.1	2.8	.0	2.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.2	.2	.2	.1	*	*	.0	.2	.0	.0	1.1	1.1
	4-10	.6	.1	.6	.9	.3	.2	.0	.2	.0	.0	2.7	2.7
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.8	.2	.8	1.0	.3	.2	.0	.4	.0	.0	3.8	3.8
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.0	.2	.1	.1	.1	.0	.0	.0	.0	.0	.5	.5
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.1	.1	.1	.0	.0	.0	.0	.1	.6	.6
2<5	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.1	.2	.1	.0	.0	.0	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.2	.2	.0	.0	.0	.0	.0	.5	.5
5<10	0-3	2.0	1.5	1.6	2.4	3.5	.5	.3	.4	.0	1.2	14.5	14.5
	4-10	4.7	4.0	9.6	17.8	6.7	1.1	.5	.9	.0	.0	45.3	45.3
	11-21	.4	.2	1.4	3.4	.7	.0	.0	.3	.0	.0	6.4	6.4
	22+	.0	.0	.1	*	.0	.0	.0	.0	.0	.0	.2	.2
	TOT %	7.1	5.7	12.8	24.6	10.9	1.6	.8	1.6	.0	1.2	66.3	66.3
10+	0-3	.4	1.0	1.4	.8	.1	.1	.1	.2	.0	1.2	5.4	5.4
	4-10	1.6	3.8	5.1	6.1	.4	.2	.2	.2	.0	.0	18.2	18.2
	11-21	.0	.2	1.1	3.4	.3	.0	.0	.1	.0	.0	5.1	5.1
	22+	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	.1
	TOT %	1.9	5.1	7.6	10.4	1.4	.3	.2	.6	.0	1.2	28.8	28.8
TOT OBS		1215											
TOT PCT		9.9	11.2	21.4	36.3	12.9	2.1	1.1	2.6	.0	2.6	100.0	

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PERIOD: (PRIMARY) 1903-1949
(EVER-ALL) 1884-1949

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	4.0	4.0	.0	.0	.0	.0	.0	8.0	92.0	25
06009	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	31
12015	.0	.0	.0	6.1	12.1	6.1	.0	.0	.0	.0	24.2	75.8	33
18021	.0	.0	.0	6.9	.0	3.4	3.4	.0	.0	.0	13.8	86.2	29
TOT	0	0	0	5	5	5	1	0	0	0	14	104	118
PCT	.0	.0	.0	4.2	4.2	2.5	.8	.0	.0	.0	11.9	88.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	3.8	.0	.0	66.7	29.5	237
06009	.0	5.3	.6	.0	68.4	25.7	491
12015	.0	3.7	.4	.0	67.5	28.4	271
18021	.0	4.2	.6	1.3	71.8	22.1	479
TOT	0	65	7	6	1021	379	1478
PCT	.0	4.4	.5	.4	69.1	25.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	4.2	4.2	91.7	24
06009	.0	.0	.0	.0	100.0	30
12015	.0	.0	6.5	19.4	74.2	31
18021	.0	.0	7.1	7.1	85.7	28
TOT	0	0	5	9	99	113
PCT	.0	.0	4.4	8.0	87.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
85/89	.0	.0	.0	.2	1.2	2.2	.7	.5	20	4.8
80/84	.0	.0	.0	.0	7.2	19.5	15.4	4.8	195	46.9
75/79	.0	.0	.0	.5	2.6	21.2	16.6	7.0	199	47.8
70/74	.0	.0	.0	.0	.0	.0	.2	.0	1	.2
TOTAL	0	0	0	3	47	178	137	51	416	100.0
PCT	.0	.0	.0	.7	11.3	42.8	32.9	12.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0
85/89	.6	.4	1.2	1.7	.0	.0	.2	.2	.0	.5
80/84	5.9	9.1	11.4	14.9	1.8	.2	.2	2.0	.0	1.2
75/79	2.0	8.5	9.2	17.7	3.5	.4	.7	1.1	.0	4.8
70/74	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
TOTAL	8.5	17.9	21.9	34.4	5.3	.9	1.2	3.4	.0	6.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	94	88	85	81	77	75	74	81.1	256
06009	91	87	85	80	77	75	71	80.4	519
12015	84	82	81	78	75	72	70	78.2	286
18021	87	83	81	76	74	70	70	77.8	514
TOT	94	87	84	79	75	71	70	79.3	1575

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	20.2	44.0	27.4	8.3	77	84
06009	.0	2.3	14.6	50.3	24.6	8.2	77	171
12015	.0	.0	6.0	40.0	40.0	14.0	81	100
18021	.0	.0	4.2	38.7	38.1	19.0	82	168
TOT	0	4	55	228	169	67	79	523

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PERIOD: (PRIMARY) 1905-1969
(OVER-ALL) 1884-1969

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	83 88	89 92	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	.0	.1	1	.0	.1
7/8	.0	.0	.2	.0	.2	.1	7	.0	.6
6	.0	.0	.2	.4	.2	.0	10	.0	.8
5	.0	.0	.1	.2	1.2	.0	18	.0	1.5
4	.0	.0	.2	1.6	.7	.0	30	.0	2.5
3	.0	.0	.9	3.3	.8	.0	61	.3	4.7
2	.0	.0	2.2	4.9	.4	.1	93	.2	7.5
1	.0	.7	6.2	5.6	.2	.0	154	.5	12.2
0	.2	.2	15.3	6.2	.0	.0	267	1.6	20.3
-1	.0	1.2	14.5	3.9	.0	.0	240	1.7	18.0
-2	.0	2.6	8.3	.7	.0	.0	141	.4	11.2
-3	.1	2.5	3.6	.4	.0	.0	81	.1	6.6
-4	.2	2.5	2.1	.0	.0	.0	59	.2	4.7
-5	.4	1.2	.6	.1	.0	.0	27	.1	2.1
-6	.1	1.0	.1	.0	.0	.0	14	.0	1.2
-7/-8	.2	.7	.0	.0	.0	.0	12	.1	.9
-9/-10	.2	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	16	155	333	44	3	1217	63	1134	
PCT	1.3	12.7	54.7	27.4	3.6	.2	100.0	5.2	94.8

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.3	.0	.0	.0	.0	2.7	5.3	4.0	.0	.0	.0	.0	9.3
1-2	.0	4.0	.0	.0	.0	.0	4.0	.0	10.3	.0	.0	.0	.0	10.3
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.3	1.3	.0	.0	.0	1.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	5.3	.0	.0	.0	.0	6.7	5.3	14.7	2.7	.0	.0	.0	22.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	6.3	.0	.0	.0	.0	6.3	.0	.3	.0	.0	.0	.0	.3
1-2	.0	8.3	1.0	.0	.0	.0	9.3	.3	9.3	7.0	.0	.0	.0	12.7
3-4	.0	6.0	3.3	.0	.0	.0	9.3	.0	7.0	10.0	.0	.0	.0	17.0
5-6	.0	.0	4.0	.0	.0	.0	4.0	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	1.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	20.7	8.3	.0	.0	.0	29.0	.3	12.7	19.7	.0	.0	.0	32.7

PERIOD: (OVER-ALL) 1963-1969

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
1-2	1.0	1.0	1.3	.0	.0	.0		3.3	.0	.3	.0	.0	.0	.0		.3
3-4	.0	.0	1.3	.0	.0	.0		1.3	.0	.0	.0	.0	.0	.0		.0
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.0	1.0	2.7	.0	.0	.0		4.7	.0	.3	.0	.0	.0	.0		.3

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
1-2	.0	.0	.0	.0	.0	.0		.0	1.3	.0	.0	.0	.0	.0		.0	1.3
3-4	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.0	.0	.0	.0	.0	.0		.0	1.3	.0	.0	.0	.0	.0		1.3	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	11.7	11.7	.0	.0	.0	.0	.0	23.4
1-2	1.3	29.9	9.1	.0	.0	.0	.0	40.3
3-4	.0	13.0	15.6	.0	.0	.0	.0	28.6
5-6	.0	.0	6.5	.0	.0	.0	.0	6.5
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	1.3	.0	.0	.0	.0	1.3
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	13.0	54.5	32.5	.0	.0	.0	100.0	77

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	9.8	31.4	21.6	5.9	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	2
6-7	.0	2.0	1.0	4.9	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	5
8-9	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
10-11	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
12-13	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	0
INDET	11.8	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	2
TOTAL	22	38	25	11	4	1	1	0	0	0	0	0	0	0	0	0	0	0	0	100.0	
PCT	21.6	37.3	24.5	10.8	3.9	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		

DECEMBER

PERIOD: (PRIMARY) 1905-1969
(OVER-ALL) 1857-1969AREA 0002 CAIRNS
16.85 145.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.7	1.9	1.1	.0	.0	.0	.0	5.6	.0	4.7	12.0	.0	.0	.0	79.5
NE	4.0	3.2	.0	.0	.0	.0	.0	7.2	2.4	3.6	6.0	.0	2.0	.0	80.1
E	3.7	12.1	.0	.0	.0	.0	.0	15.9	1.6	2.2	.8	.0	1.9	.0	78.3
SE	5.5	15.1	.0	.0	.0	.0	.0	20.5	.2	1.9	2.7	.0	.2	.0	75.9
S	14.3	18.6	1.5	.0	.0	.0	.0	34.4	1.5	2.6	3.1	.0	.0	.0	60.1
SW	10.4	10.4	.7	.0	.0	.0	.0	21.5	3.7	7.4	1.5	.0	3.0	.0	70.4
W	8.3	16.7	.0	.0	.0	.0	.0	25.0	.0	4.2	12.5	.0	2.1	.0	60.4
NW	3.5	4.7	.0	.0	.0	.0	.0	8.1	2.3	5.2	9.3	.0	1.2	.0	75.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	7.7	.0	.0	.0	.0	7.7	.0	.0	.0	.0	15.4	.0	76.9
TOT PCT TOT OBS:	5.6 988	10.2	.5	.0	.0	.0	.0	16.3	1.0	3.1	5.1	.0	1.0	.0	75.1

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	3.2	4.6	.0	.0	.0	.0	.0	7.8	1.8	.0	3.7	.0	2.8	.0	83.9
0600	2.9	7.7	.5	.0	.0	.0	.0	11.1	.3	2.9	5.3	.0	2.4	.0	78.8
1200	10.6	12.6	.0	.0	.0	.0	.0	23.2	1.0	8.7	3.4	.0	.0	.0	67.6
1800	7.1	12.1	1.1	.0	.0	.0	.0	20.3	1.1	3.2	5.3	.0	2.4	.0	70.0
TOT PCT TOT OBS:	5.7 1183	9.4	.5	.0	.0	.0	.0	15.6	.9	3.5	4.6	.0	2.0	.0	75.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	3.6	13.3	.9	.0	.0	.0		17.8	6.1	2.5	22.1	21.4	22.7	19.4	17.0	13.6	10.5
NE	2.9	9.1	.8	.0	.0	.0		12.8	6.1	15.0	14.3	16.1	16.0	21.0	10.6	8.6	8.5
E	2.4	12.6	2.0	.3	.0	.0		17.3	7.3	20.0	16.5	19.0	17.1	33.9	19.1	15.3	13.3
SE	2.9	20.5	5.1	.2	.0	.0		28.6	8.0	40.0	27.0	31.6	30.2	21.0	28.9	26.6	26.8
S	3.4	6.0	.8	.0	.0	.0		10.2	5.4	10.8	8.1	6.6	6.5	2.4	9.8	15.3	16.8
SW	1.5	1.7	*	.0	.0	.0		3.2	4.5	5.0	1.2	1.7	.5	.0	2.2	6.5	8.1
W	.6	1.9	.2	.0	.0	.0		2.7	5.3	.0	3.3	.5	1.5	.0	4.5	3.4	4.0
NW	1.1	3.4	.1	.0	.0	.0		4.7	6.0	3.3	4.5	2.6	4.0	2.4	4.5	5.8	7.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.8							2.8	.0	3.3	2.9	.5	1.5	.0	3.4	4.9	4.5
TOT OBS	262	848	123	6	0	0	1239		6.5	30	210	209	199	31	179	204	177
TOT PCT	21.1	68.4	9.9	.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00	06	12	18
N	11.4	6.2	.2	.0	.0	17.8	6.1	19.7	22.1	17.4	12.1	
NE	8.2	4.4	.2	.0	.0	12.8	6.1	14.4	16.1	12.1	8.5	
E	9.4	7.0	.8	*	.0	17.3	7.3	17.0	18.1	21.3	14.4	
SE	12.4	14.7	1.5	*	.0	28.6	8.0	28.6	30.9	27.7	26.7	
S	7.3	2.8	.0	.0	.0	10.2	5.4	8.4	6.6	8.7	16.0	
SW	2.4	.8	.0	.0	.0	3.2	4.5	1.7	1.1	1.9	7.2	
W	2.1	.6	.0	.0	.0	2.7	5.3	2.9	1.0	3.8	3.7	
NW	2.8	1.8	*	.0	.0	4.7	6.0	4.4	3.3	4.2	6.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.8					2.8	.0	2.9	1.0	2.9	4.7	
TOT OBS	730	474	34	1	0	1239	6.5	240	408	210	381	
TOT PCT	58.9	38.3	2.7	.1	.0		100.0	100.0	100.0	100.0	100.0	

DECEMBER

AREA 0002 CAIRNS
16.85 145.7E

PERIOD: (PRIMARY) 1905-1969
(OVER-ALL) 1857-1969

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	2.9	17.1	66.7	12.5	.8	.0	.0	.0	6.7	100.0	240
06009	1.0	16.7	73.0	9.1	.2	.0	.0	.0	6.8	100.0	408
12015	2.9	13.8	69.0	13.3	1.0	.0	.0	.0	7.0	100.0	210
18021	4.7	23.4	64.3	7.3	.3	.0	.0	.0	5.8	100.0	381
TOT	35	227	848	123	.6	.0	.0	.0	6.5	100.0	1239
PCT	2.8	18.3	68.4	9.9	.5	.0	.0	.0			

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT.) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION					MEAN CLOUD COVER	PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT.) NH >4/8 AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION										NH <5/8 ANY HGT	TOTAL OBS
	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS		000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+		
N	6.0	4.2	.7	.7		2.5	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	10.9
NE	2.3	6.0	6.0	1.2		4.4	.0	.0	.0	2.8	1.9	.2	.0	.0	.0	.0	.0	10.6
E	10.4	5.6	9.3	4.9		4.4	.0	.0	.0	1.6	3.7	3.2	.7	.0	.0	.0	.0	20.8
SE	10.0	9.0	5.3	6.3		4.1	.0	.0	.0	3.0	3.2	1.2	1.2	.0	.0	.0	.0	22.0
S	.0	.7	2.1	1.6		6.7	.0	.0	.0	1.6	1.4	.0	.0	.0	.0	.0	.0	2.1
SW	.9	.0	.5	.9		5.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.9
W	.0	.0	.9	.0		6.0	.0	.9	.0	.2	.0	.0	.9	.0	.0	.0	.0	.7
NW	.0	.5	2.1	.2		5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9
CALM	.9	.0	.9	.0		3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.77
TOT OBS	33	28	30	17	108	4.2	.0	.9	.0	11	11	5	3	.0	.0	.0	.0	108
TOT PCT	30.6	25.9	27.8	15.7	100.0		.0	.9	.0	10.2	10.2	4.6	2.8	.0	.0	.0	.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10		= OR >5		= OR >2		VSBY (NM) = OR >1		= OR >1/2		= OR >1/4		= OR >50YD		= OR >0	
	= OR	>	= OR	>	= OR	>	= OR	>	= OR	>	= OR	>	= OR	>	= OR	>
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
= OR >2000	4.5	5.4	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3	6.3
= OR >1000	12.6	14.4	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
= OR >600	18.0	23.4	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1
= OR >300	18.0	23.4	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1	26.1
= OR >150	18.9	24.3	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
= OR >0	18.9	24.3	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0	27.0
TOTAL	21	27	30	30	30	30	30	30	30	30	30	30	30	30	30	30

TOTAL NUMBER OF OBS: 111

PCT FREQ NH <5/8 73.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
3.8	20.5	19.7	15.2	9.8	7.6	6.1	10.6	6.8	.0	132

DECEMBER

PERIOD: (PRIMARY) 1905-1969
(OVER-ALL) 1857-1969

ARFA 0002 CAIRNS
16.85 145.7E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<	PCP	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	2.0	.6	.1	.8	.4	.1	.4	.4	.0	.0	4.7	
	TOT %	2.0	.6	.1	1.2	.4	.1	.4	.4	.0	.0	5.1	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.2	.2	.1	.0	.1	.1	.1	.0	.2	.8	
	TOT %	.0	.2	.2	.1	.0	.1	.1	.1	.0	.2	.8	
2<5	PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.3	
5<10	PCP	1.1	.8	2.4	5.2	3.7	.7	.6	.4	.0	.0	14.9	
	NO PCP	10.6	6.4	9.1	16.2	5.3	2.1	.7	2.0	.0	.3	52.6	
	TOT %	11.6	7.2	11.5	21.4	9.0	2.8	1.3	2.4	.0	.3	67.5	
10+	PCP	.0	.1	.1	.4	.2	*	.0	.0	.0	.1	.9	
	NO PCP	5.3	4.5	4.3	6.0	1.9	.4	.7	1.5	.0	.7	25.4	
	TOT %	5.3	4.6	4.4	6.4	2.1	.4	.7	1.5	.0	.8	26.3	
TOT OBS													988
TOT PCT													
18.9 12.7 16.2 29.1 11.5 3.4 2.4 4.4 .0 1.3 100.0													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<	0-3	.0	.1	.0	.1	.2	.0	.0	.0	.0	.0	.4	
	4-10	1.6	.4	*	.6	.2	.1	.3	.4	.0	.0	3.6	
	11-21	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	1.7	.5	*	1.1	.4	.1	.3	.4	.0	.0	4.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.3	.4	
	4-10	.0	.1	.2	*	.0	.1	.0	.0	.0	.0	.4	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.2	.1	.0	.1	*	*	.0	.3	.9	
2<5	0-3	*	*	.0	.0	.0	.0	*	*	.0	.1	.3	
	4-10	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.3	.1	.1	.0	.0	*	*	.0	.1	.8	
5<10	0-3	2.9	1.5	1.8	2.4	3.0	1.2	.2	.6	.0	.6	14.3	
	4-10	7.1	4.9	8.3	15.0	4.5	1.3	.9	1.6	.0	.0	43.7	
	11-21	.4	.3	.6	2.3	.5	.0	.0	*	.0	.0	4.1	
	22+	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.3	
	TOT %	10.4	6.7	10.9	19.8	8.1	2.6	1.2	2.3	.0	.6	62.4	
10+	0-3	.6	.9	.5	.6	.4	.3	.3	.3	.0	1.2	5.1	
	4-10	4.7	3.3	4.2	5.7	1.7	.3	.4	1.3	.0	.0	21.7	
	11-21	.4	.3	.9	2.5	.2	*	.1	*	.0	.0	4.5	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	5.7	4.6	5.6	8.8	2.4	.6	.9	1.7	.0	1.2	31.4	
TOT OBS													1115
TOT PCT													
17.9 12.2 16.9 29.8 10.9 3.3 2.4 4.4 .0 2.2 100.0													

DECEMBER

PERIOD: (PRIMARY) 1905-1969
(OVER-ALL) 1857-1969

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	10.7	7.1	7.1	7.1	.0	.0	.0	32.1	67.9	28
06009	.0	.0	.0	9.4	12.5	.0	3.1	.0	.0	.0	25.0	75.0	32
12015	.0	.0	.0	5.9	5.9	5.9	.0	.0	.0	.0	17.6	82.4	34
18021	.0	3.4	.0	13.8	10.3	3.4	.0	.0	.0	.0	31.0	69.0	29
TOT PCT	0 .0	1 .8	0 .0	12 9.8	11 8.9	5 4.1	3 2.4	0 .0	0 .0	0 .0	32 26.0	91 74.0	123 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	3.9	2.2	.0	61.2	32.8	232
06009	.0	4.5	1.9	.5	67.9	25.2	420
12015	.4	2.1	.8	1.7	63.7	31.2	237
18021	.0	5.0	2.1	.7	67.2	24.9	421
TOT PCT	1 .1	54 4.1	24 1.8	9 .7	861 65.7	361 27.6	1310 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOURL (GMT)	<150 <500D	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	.0	11.1	18.5	70.4	27
06009	.0	.0	6.9	17.2	75.9	29
12015	.0	.0	14.3	7.1	78.6	28
18021	.0	3.7	18.5	14.8	66.7	27
TOT PCT	0 .0	1 .9	14 12.6	16 14.4	81 73.0	111 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
99/99	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
90/94	.0	.0	.0	.7	.0	.7	.0	.0	4	.9
85/89	.0	.0	.0	.5	4.8	3.9	3.9	.5	59	13.5
80/84	.0	.0	.0	.5	5.0	30.2	25.6	6.6	297	68.0
75/79	.0	.0	.0	.0	.2	3.4	7.8	4.8	71	16.2
70/74	.0	.0	.0	.0	.0	.0	.2	.9	5	1.1
TOTAL	0	0	0	6	44	167	164	56	437	100.0
PCT	.0	.0	.0	1.4	10.1	38.2	37.5	12.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.2	.0	.0
.1	.1	.0	.6	.1	.0	.0	.0	.0	.0
2.5	3.1	2.7	3.2	.7	.0	.5	.6	.0	.2
13.0	11.8	13.4	18.4	4.0	1.4	1.5	3.5	.0	.9
1.0	1.8	2.9	5.3	2.4	1.1	.1	.7	.0	.9
.0	.0	.2	.1	.6	.1	.0	.0	.0	.2
16.6	16.9	19.2	27.5	7.8	2.6	2.1	5.1	.0	2.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	95	94	88	82	79	76	74	82.9	268
06009	95	91	87	82	78	75	73	82.4	454
12015	85	84	83	81	75	74	73	80.2	252
18021	93	85	83	80	75	73	70	77.8	459
TOT	95	90	86	81	76	74	70	81.3	1433

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.8	21.3	30.6	35.2	10.2	77	108
06009	.0	1.8	11.6	40.9	36.0	9.8	79	164
12015	.0	.0	2.3	45.5	40.9	11.4	81	88
18021	.0	.6	4.1	36.5	38.8	20.0	82	170
TOT	0	7	51	202	199	71	80	530

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PERIOD: (PRIMARY) 1905-1969
(OVER-ALL) 1857-1969

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.1	.2	3	.0	.3
9/10	.0	.0	.0	.0	.0	.1	.5	6	.0	.6
7/8	.0	.0	.0	.1	.4	.3	.0	8	.2	.6
6	.0	.0	.1	.0	.7	.3	.0	11	.0	1.0
5	.0	.0	.0	.0	.8	.1	.0	9	.0	.9
4	.0	.0	.0	1.3	1.6	.2	.0	33	.2	2.9
3	.0	.0	.1	1.1	2.6	.1	.0	41	.1	3.8
2	.0	.0	.6	6.0	2.1	.0	.0	91	.6	8.0
1	.0	.1	.8	11.2	1.4	.0	.0	142	1.4	12.0
0	.0	.0	3.3	14.0	.5	.0	.0	188	.6	17.2
-1	.0	.0	5.9	13.8	.2	.0	.0	210	.9	19.0
-2	.0	.1	6.4	4.0	.0	.0	.0	111	.5	10.0
-3	.0	.3	5.1	1.4	.0	.0	.0	72	.2	6.6
-4	.0	.6	3.8	.5	.0	.0	.0	51	.1	4.7
-5	.0	1.3	1.9	.1	.0	.0	.0	35	.0	3.3
-6	.0	1.2	.8	.1	.0	.0	.0	22	.1	2.0
-7/-8	.0	1.8	.2	.0	.0	.0	.0	21	.2	1.8
-9/-10	.1	.0	.1	.0	.0	.0	.0	2	.0	.2
TOTAL	1		306		107		7		32	1004
PCT	.1	.57	566	12	1.1	.7		1056	4.9	95.1

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	1.4	1.1	.0	.0	.0	.0	2.5
1-2	.0	6.9	.0	.0	.0	.0	6.9	.0	6.2	.4	.0	.0	.0	6.5
3-4	.0	2.5	.0	.0	.0	.0	2.5	.0	.4	2.9	.0	.0	.0	3.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	1.4
7	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.5	1.1	.0	.0	.0	11.6	1.4	7.6	4.7	.0	.0	.0	13.8

HGT	1-3	4-10	11-21	27-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	6.2	.0	.0	.0	.0	7.6	.0	.4	.0	.0	.0	.0	.4
1-2	.0	12.0	1.1	.0	.0	.0	13.0	.0	8.7	2.9	.0	.0	.0	11.6
3-4	.0	.0	6.9	.0	.0	.0	6.9	.0	2.9	4.7	.0	.0	.0	7.6
5-6	.0	1.4	2.2	1.1	.0	.0	4.7	.0	.0	5.1	1.8	.0	.0	6.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	19.6	10.1	1.1	.0	.0	32.2	.0	12.0	12.7	1.8	.0	.0	26.4

PERIOD: (OVER-ALL) 1963-1969

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.4	.0	.0	.0	.0	1.4	.0	1.4	.0	.0	.0	.0	1.4	
1-2	.0	2.2	1.4	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.6	1.4	.0	.0	.0	5.1	1.4	1.4	.0	.0	.0	.0	2.9	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	.0	1.4	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	1.8	
3-4	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	1.4	.0	.0	.0	1.4	.0	3.3	.4	.0	.0	.0	3.6	97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.6	12.3	.0	.0	.0	.0	21.9	
1-2	1.4	37.0	5.5	.0	.0	.0	43.8	
3-4	.0	5.5	15.1	.0	.0	.0	20.5	
5-6	.0	1.4	8.2	2.7	.0	.0	12.3	
7	.0	.0	1.4	.0	.0	.0	1.4	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.0	55.2	30.1	2.7	.0	.0	100.0	73

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	15.3	28.6	17.3	6.1	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	2
6-7	.0	3.1	6.1	1.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	4
8-9	.0	2.0	1.0	1.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	5
10-11	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	2
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	0
INDET	9.2	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	98	2
TOTAL PCT	24.5	35.7	24.5	8.2	6.1	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1897-1971
(OVER-ALL) 1857-1971

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWK	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.1	2.5	.8	.0	.0	.0	.1	5.4	.2	1.8	3.4	.0	.9	.0	88.5
NE	3.1	5.2	1.5	.0	.0	.0	.0	9.8	1.1	2.1	1.8	.0	.8	.0	84.8
E	3.2	7.0	1.1	.0	.0	.0	.0	11.3	.9	1.7	2.3	.0	1.2	.0	83.4
SE	4.4	11.1	.8	.0	.0	.0	.1	16.4	1.3	.4	2.1	.0	.5	.0	79.5
S	5.1	10.1	1.8	.0	.0	.0	.0	20.0	1.5	1.0	2.8	.0	.4	.0	74.9
SW	7.2	9.4	1.7	.0	.0	.0	.0	14.4	2.4	1.9	3.0	.0	1.6	.0	77.8
W	3.6	3.8	2.2	.0	.0	.0	.0	9.7	.7	3.2	4.3	.0	.7	.0	80.5
NW	3.4	1.9	2.0	.0	.0	.0	.0	7.3	.8	.8	2.9	.0	1.8	.0	86.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6	.5	.6	.0	.0	.0	.0	2.8	1.4	.6	.0	.0	3.6	.0	91.6
TOT PCT	4.5	8.2	1.1	.0	.0	.0	*	13.6	1.2	1.1	2.6	.0	.8	.0	80.8
TOT OBS:	7757														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHW.	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.6	6.1	1.1	.0	.0	.0	.0	10.9	1.3	*	2.1	.0	1.1	.0	84.6
06009	4.2	7.0	.8	.0	.0	.0	*	12.0	.7	.9	2.9	.0	.8	.0	83.1
12015	5.7	8.3	1.4	.0	.0	.0	.0	15.4	1.6	3.1	2.2	.0	.8	.0	77.6
18021	4.9	9.9	1.1	.0	.0	.0	.1	16.1	1.1	1.2	2.9	.0	.9	.0	78.4
TOT PCT TOT OBS:	4.6 8866	8.0	1.1	.0	.0	.0	*	13.6	1.1	1.2	2.6	.0	.9	.0	80.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	2.0	4.9	.5	*	.0	.0		7.4	5.3		2.7	9.0	9.1	8.6	9.2	7.2	6.1	4.8
NE	1.7	4.6	.5	*	.0	.0		6.9	5.7		4.4	6.2	8.3	8.6	11.3	7.4	5.4	4.6
E	2.1	10.0	3.0	.2	*	.0		15.4	8.2		12.8	13.4	18.3	17.3	19.8	16.2	14.9	11.8
SE	3.5	22.6	13.9	1.8	*	.0		41.8	9.9		46.0	40.9	47.6	44.7	40.5	41.0	37.7	37.5
S	2.7	8.9	3.9	.4	*	.0		16.0	8.0		19.8	18.4	11.7	11.9	9.7	14.5	18.2	22.2
SW	1.1	2.5	.4	*	.0	.0		4.1	5.7		7.9	3.5	1.0	2.3	2.5	3.0	6.6	7.7
W	.6	1.2	.1	.0	.0	.0		1.9	5.3		.6	1.8	.3	.6	.5	2.2	3.5	3.8
NW	1.0	2.4	.3	*	.0	.0		3.6	5.5		2.9	3.7	1.9	3.2	1.0	4.4	4.4	5.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.0							3.0	.0		3.3	3.2	1.9	2.9	5.3	4.0	3.2	2.3
TOT OBS							10899		8.2		307	1809	1842	1721	380	1518	1733	1589
TOT PCT	17.8	57.1	22.5	2.5	*	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00	06	12	18
N	5.1	2.2	.1	.0	.0		7.4	5.3	8.1	8.8	7.5	5.5
NE	4.7	2.0	.2	.0	.0		6.9	5.7	6.0	8.4	8.3	5.0
E	7.3	7.0	1.1	*	.0		15.4	8.2	13.1	17.8	17.0	13.4
SE	13.2	22.4	5.9	.4	.0		41.8	9.9	41.6	46.2	40.9	37.6
S	7.4	6.7	1.7	.1	.0		16.0	8.0	18.6	11.8	13.6	20.2
SW	2.7	1.3	.1	.0	.0		4.1	5.7	4.3	1.6	3.0	7.2
W	1.4	.5	*	.0	.0		1.9	5.3	1.6	.5	1.9	3.7
NW	2.5	1.0	*	.0	.0		3.6	5.5	3.6	2.5	3.7	4.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.0						3.0	.0	3.2	2.4	4.4	2.8
TOT OBS						10899		8.2	2116	3563	1898	3322
TOT PCT	47.3	43.1	9.1	.5	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1897-1971
(OVER-ALL) 1897-1971

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	3.2	15.0	53.9	25.1	2.7	.1	.0	8.4	100.0	2116
0600	2.4	14.1	59.8	21.7	2.4	.1	.0	8.2	100.0	3563
1200	4.4	12.9	56.8	23.1	2.9	.0	.0	8.2	100.0	1898
1800	2.8	16.4	56.5	22.0	2.4	.0	.0	8.0	100.0	3322
TOT								8.2		10899
PCT	3.0	14.8	57.1	22.5	2.5	*	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	2.5	1.4	1.4	.3		2.1
NE	3.3	2.2	2.3	.5		2.9
E	7.3	4.2	4.4	2.6		3.8
SE	13.8	10.8	13.3	6.0		4.1
S	4.0	2.7	4.3	2.1		4.5
SW	2.0	.6	1.0	.3		3.5
W	.4	.3	.2	.0		2.0
NW	1.1	.2	.7	.1		2.6
VAR	.0	.0	.0	.0		2.1
CALM	2.2	.5	.7	.1		3.8
TOT OBS					1271	
TOT PCT	37.2	22.9	28.1	11.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.3	.3	.2	.1	.0	.0	.0	.0	4.8
NE	.0	.0	.0	.4	.8	.2	.1	.0	.0	.0	.0	6.8
E	.0	.0	.1	1.0	1.5	.6	.2	.2	.0	.0	.1	14.7
SE	.0	.0	.8	3.5	4.8	2.3	1.1	*	.0	.0	.1	31.3
S	.0	.0	.1	1.6	1.9	.7	.5	.1	.0	.0	.1	8.8
SW	.0	.0	.0	.1	.2	.1	.1	.0	.1	.0	.0	3.2
W	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.7
NW	.0	.1	.0	.2	.1	.1	.1	.1	.0	.0	.0	1.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.2	.1	.1	.1	.0	.0	.1	.1	2.9
TOT OBS												1271
TOT PCT	.0	.1	1.0	7.3	9.6	4.3	2.2	.4	.1	.4	74.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.5	.5	.5	.5	.5	.5	.5	.5
>4000	.8	.9	.9	.9	.9	.9	.9	.9
>3500	2.5	2.7	2.8	3.0	3.0	3.0	3.0	3.0
>2000	6.1	6.6	6.9	7.1	7.1	7.1	7.1	7.1
>1000	13.6	15.6	16.3	16.6	16.6	16.6	16.6	16.6
>600	17.8	22.1	23.2	23.7	23.7	23.7	23.7	23.7
>300	18.4	23.0	24.2	24.7	24.7	24.7	24.7	24.7
>150	18.4	23.0	24.2	24.8	24.8	24.8	24.8	24.8
>0	18.4	23.0	24.2	24.8	24.8	24.8	24.8	24.8

TOTAL NUMBER OF OBS: 1291

PCT FREQ NH <5/8: 75.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	8 OBS	TOTAL OBS
	11.9	20.1	17.8	15.2	9.4	6.5	6.7	5.4	7.1	.0	1404

PERIOD: (PRIMARY) 1897-1971
(OVER-ALL) 1857-1971

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
1/2<	PCP	.0	*	*	.2	.1	.1	.0	.0	.0	.0	.4	
	NO PCP	.4	.1	.2	.7	.6	.1	.1	.1	.0	.0	2.1	
	TOT %	.4	.1	.2	.8	.7	.2	.1	.1	.0	.0	2.5	
1<2	PCP	*	*	.1	.2	.1	*	*	*	.0	.0	.5	
	NO PCP	*	.1	.1	.2	.1	*	*	*	.0	.1	.5	
	TOT %	*	.1	.1	.4	.2	*	*	.1	.0	.1	1.0	
2<5	PCP	.0	.1	.1	.3	.1	.1	.0	.0	.0	*	.6	
	NO PCP	*	*	.1	.4	.2	*	*	.0	.0	.0	.8	
	TOT %	*	.1	.2	.7	.3	.1	*	.0	.0	*	1.4	
5<10	PCP	.3	.4	1.2	5.6	2.6	.4	.2	.2	.0	*	10.9	
	NO PCP	3.8	3.2	7.1	20.7	7.9	1.8	.8	1.6	.0	.6	47.5	
	TOT %	4.2	3.6	8.3	26.3	10.5	2.2	1.0	1.8	.0	.7	58.5	
10+	PCP	*	.1	.2	.6	.3	*	*	*	.0	*	1.3	
	NO PCP	2.5	2.5	5.7	14.2	5.3	1.8	.6	1.3	.0	1.2	35.2	
	TOT %	2.5	2.6	5.9	14.8	5.6	1.8	.7	1.3	.0	1.3	36.5	
TOT OBS													7755
TOT PCT		7.1	6.5	14.8	43.0	17.2	4.3	1.8	3.3	.0	2.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	*	*	.0	.0	.0	.0	.0	*	
	11-21	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
1/2<	0-3	*	*	.1	.1	.1	*	*	*	.0	.0	.4	
	4-10	.2	.1	.1	.5	.2	.1	.1	*	.0	.0	1.2	
	11-21	*	*	*	.2	.2	*	.0	*	.0	.0	.5	
	22+	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.3	.1	.2	.7	.3	.1	.1	.1	.0	.0	2.2	
1<2	0-3	.0	*	*	.0	*	*	*	*	.0	.1	.2	
	4-10	*	.1	.1	.2	.1	*	*	*	.0	.0	.5	
	11-21	.0	*	.1	.3	.1	.0	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	*	.1	.1	.5	.2	*	*	.1	.0	.1	1.2	
2<5	0-3	*	*	.0	*	*	*	*	*	.0	*	.1	
	4-10	*	.1	.1	.3	.2	*	.0	*	.0	.0	.8	
	11-21	*	*	.1	.5	.1	*	*	*	.0	.0	.9	
	22+	.0	*	*	.2	*	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.1	.2	1.0	.3	.1	*	*	.0	*	2.0	
5<10	0-3	1.1	.9	1.3	2.4	2.1	.7	.2	.4	.0	.7	9.7	
	4-10	2.3	1.9	4.7	12.6	4.9	1.1	.6	1.1	.0	.0	29.2	
	11-21	.3	.3	1.3	6.8	1.9	.2	*	.1	.0	.0	10.8	
	22+	*	*	.1	1.2	.3	.0	.0	.0	.0	.0	1.6	
	TOT %	3.7	3.1	7.4	23.0	9.1	2.0	.8	1.6	.0	.7	51.3	
10+	0-3	.8	.6	.8	1.2	.7	.5	.3	.5	.0	1.9	7.2	
	4-10	2.3	2.3	4.8	9.0	3.8	1.4	.4	1.1	.0	.0	25.0	
	11-21	.2	.2	1.3	6.9	1.7	.2	.1	.1	.0	.0	10.7	
	22+	*	.0	.1	.3	.1	*	.0	*	.0	.0	.5	
	TOT %	3.3	3.1	6.9	17.3	6.3	2.0	.8	1.7	.0	1.9	43.3	
TOT OBS													9354
TOT PCT		7.4	6.5	14.9	42.7	16.5	4.3	1.7	3.4	.0	2.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.9	6.2	10.9	5.4	2.6	.6	.3	.6	27.6	72.4	309
06009	.0	.0	1.0	6.2	6.1	3.6	2.2	.2	.0	.0	19.4	80.6	367
12015	.0	.0	.9	7.6	10.4	4.0	1.3	.0	.0	.6	24.9	75.1	375
18021	.0	.3	.7	7.5	8.9	2.9	2.0	.7	.0	.7	23.6	76.4	314
TOT PCT	.0	.1	.9	6.8	9.0	4.0	2.0	.4	.1	.4	23.6	76.4	1365 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.1	2.0	1.1	1.3	46.3	49.1	1894
06009	*	2.4	1.4	2.5	54.8	38.8	3385
12015	.1	1.9	1.1	1.8	52.0	43.2	1937
18021	*	2.2	1.2	1.8	56.7	38.1	3257
TOT PCT	.1	2.2	1.2	1.9	53.2	41.4	10473 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	1.0	8.5	20.3	71.2	297
06009	.0	1.1	8.2	12.1	79.7	351
12015	.0	1.0	10.6	15.7	73.8	352
18021	.0	1.1	10.4	15.3	74.3	291
TOT PCT	.0	1.0	9.3	15.6	75.0	1291 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
95/99	.0	.0	.0	*	.0	.0	.0	.0	*	
90/94	.0	.0	.0	*	.1	.4	.1	*	.6	
85/89	.0	.0	.1	.3	1.0	1.8	1.4	.4	5.0	
80/84	.0	.0	.0	.4	3.8	12.7	11.5	3.9	32.3	
75/79	.0	.0	.2	.6	2.8	13.3	11.1	7.0	35.0	
70/74	.0	.0	.4	1.2	2.6	5.0	7.8	4.4	21.4	
65/69	.0	.0	.3	.4	.6	1.0	1.8	1.2	5.3	
60/64	.0	.0	.0	*	.1	.1	.1	.1	.4	
TOTAL PCT	.0	.0	.9	2.9	11.1	34.2	33.7	17.2	3541 100.0	

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
95/99	.0	.0	.0	.0	.0	.0	.0	*	.0	.0
90/94	*	*	.2	.2	.1	*	.0	.0	.0	.0
85/89	.9	.6	.9	1.4	.5	.1	.1	.3	.0	.2
80/84	3.1	3.9	6.4	12.1	2.5	1.0	.7	1.7	.0	1.1
75/79	2.2	2.4	6.4	15.3	4.7	1.1	.4	1.2	.0	1.2
70/74	.7	.7	2.3	10.4	4.6	1.3	.2	.7	.0	.5
65/69	.1	.1	.2	2.0	1.6	.7	.2	.3	.0	.1
60/64	.0	.0	.0	.1	.1	*	*	.1	.0	.0
TOTAL	7.0	7.7	16.3	41.5	14.1	4.3	1.7	4.2	.0	3.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	95	87	84	79	71	61	78.7	2202	
06009	95	86	83	78	74	70	58	75.1	3818
12015	87	81	80	77	72	69	58	76.2	2156
18021	93	82	80	76	71	68	59	75.7	3693
TOT	95	85	82	77	72	69	58	77.1	11864

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.1	16.2	37.3	28.3	14.1	78	775
06009	.0	5.6	13.0	35.3	31.5	14.5	78	1168
12015	.0	3.3	8.5	34.2	38.1	15.9	80	745
18021	.0	2.0	7.2	30.7	36.9	23.2	82	1177
TOT	0	136	422	1344	1312	651	79	3865

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PERIOD: (PRIMARY) 1897-1971
(OVER-ALL) 1857-1971AREA 0002 CAIRNS
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TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
11/13	.0	.0	.0	.0	.0	*	*	.1	*	9	.0	.1
9/10	.0	.0	.0	.1	*	*	.1	.1	*	25	.0	.4
7/8	.0	.0	*	.1	.1	.2	.2	.2	.0	55	*	.8
6	.0	.0	.0	.1	.2	.1	.2	.1	.0	62	*	.7
5	.0	.0	.1	.2	.5	.4	.2	.3	.0	121	*	1.7
4	.0	.0	.2	.4	.8	.8	.6	.1	.0	221	.2	2.6
3	.0	*	.1	.7	1.1	1.0	.8	*	.0	314	.2	3.6
2	.0	*	.6	1.5	2.6	3.1	.9	*	.0	643	.3	8.4
1	.0	.1	.6	2.5	4.1	4.0	.6	.0	.0	900	.5	11.4
0	.0	.2	1.6	4.9	6.8	6.1	.4	.0	.0	1514	.7	19.3
-1	.0	.2	1.9	3.9	6.0	4.5	.1	.0	.0	1278	.5	16.0
-2	.0	.4	2.3	3.9	4.9	2.5	*	.0	.0	998	.3	13.8
-3	*	.4	1.7	2.0	2.1	.8	.0	.0	.0	537	.1	7.0
-4	*	.7	1.3	1.4	1.9	.5	*	.0	.0	409	.1	5.6
-5	.1	.3	.9	.5	.7	.2	.0	.0	.0	208	*	2.6
-6	*	.4	.3	.3	.3	*	.0	.0	.0	107	*	1.3
-7/-8	.1	.3	.2	.4	.1	.1	.0	.0	.0	94	*	1.2
-9/-10	*	*	*	.1	*	.0	.0	.0	.0	17	.0	.3
-11/-13	*	*	.0	.0	.0	.0	.0	.0	.0	5	.0	.1
TOTAL										7518		
PCT	.3	3.1	11.8	23.0	32.3	24.4	4.2	.8	.1	100.0	2.9	97.1

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.3	.0	.0	.0	.0	1.6	.6	1.5	.0	.0	.0	.0	2.1
1-2	.1	2.3	.1	.0	.0	.0	2.5	.1	4.0	.4	.0	.0	.0	4.5
3-4	.0	.7	.4	.0	.0	.0	1.1	.0	.4	.6	.0	.0	.0	1.0
5-6	.0	.0	.1	.1	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.1	.0	.0	.0	.1	.0	.0	*	.0	.0	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.3	.8	.1	.0	.0	5.5	.7	5.9	1.3	.0	.0	.0	7.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	2.7	.1	.0	.0	.0	3.4	.4	2.2	.6	.0	.0	.0	3.2
1-2	.1	6.9	1.3	.0	.0	.0	8.3	.3	10.7	4.8	.0	.0	.0	15.9
3-4	.0	2.4	3.0	.0	.0	.0	5.3	.1	4.2	11.0	.7	.0	.0	16.1
5-6	.0	.2	2.3	.1	.0	.0	2.6	.0	.6	6.4	.4	.0	.0	7.3
7	.0	.0	.4	.1	.0	.0	.5	.0	.0	1.3	.5	.0	.0	1.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	12.2	7.1	.2	.0	.0	20.2	.9	17.7	24.4	1.6	.0	.0	44.7

PERIOD: (OVER-ALL) 1963-1971

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.2	.1	.0	.0	.0	1.5	.1	.5	.0	.0	.0	.0	.6
1-2	.3	2.9	2.2	.0	.0	.0	5.4	.1	1.6	.2	.0	.0	.0	1.9
3-4	.0	1.1	3.0	.0	.0	.0	4.1	.0	.3	.2	.0	.0	.0	.5
5-6	.0	.5	1.4	.1	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.8	7.2	.1	.0	.0	13.5	.3	2.4	.4	.1	.0	.0	3.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.1	.0	.0	.0	.0	.1	.1	.5	.0	.0	.0	.0	.6	
1-2	.0	.3	.1	.0	.0	.0	.4	.0	.8	.0	.0	.0	.0	.8	
3-4	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.4	.2	.0	.0	.0	.6	.1	1.3	.3	.0	.0	.0	1.7	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	6.6	9.9	.8	.0	.0	.0	17.3	
1-2	1.0	24.1	8.9	.0	.0	.0	34.1	
3-4	.1	8.9	18.1	.7	.0	.0	27.8	
5-6	.0	1.3	10.2	.7	.0	.0	12.1	
7	.0	.0	2.3	.6	.0	.0	2.9	
8-9	.0	.0	.3	.1	.0	.0	.4	
10-11	.0	.0	.2	.0	.0	.0	.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.1	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.8	49.2	40.9	2.1	.0	.0	100.0	97.7

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	2-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	10.9	31.0	19.6	6.7	.9	.3	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	861
6-7	.0	1.5	6.2	5.8	3.6	.3	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	227
7-9	.0	.3	.7	.2	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25
10-11	.0	.2	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	120
INDFT	7.6	.8	.9	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1242
TOTAL PCT	18.5	33.7	27.8	13.0	5.3	.9	.7	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1897-1971
(OVER-ALL) 1857-1971

TABLE 20

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16.95 145.9E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	8	.1
87/88	.9	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	18	.2
85/86	9.0	9.0	4.8	.6	.0	.0	.0	.0	.0	.1	.2	5.1	201	1.9
83/84	36.7	35.5	20.0	3.3	.7	.1	.1	.0	.0	.4	4.6	25.0	939	8.9
81/82	40.9	39.6	44.7	24.5	1.6	.4	.4	.1	1.2	6.2	28.3	50.7	1999	18.9
79/80	10.2	8.3	23.3	34.7	8.5	1.1	1.4	.3	6.5	25.2	42.3	16.7	1688	16.0
77/78	1.6	3.4	4.0	24.1	33.2	16.1	4.0	6.7	21.0	43.9	19.6	2.1	1678	15.9
75/76	.1	.7	2.8	10.4	33.1	23.7	14.4	17.0	33.3	18.4	3.7	.3	1446	13.7
73/74	.0	.4	.4	1.0	18.6	27.2	23.1	35.0	28.3	5.1	1.0	.1	1314	12.4
71/72	.0	.2	.0	.4	2.9	20.3	32.8	24.0	8.2	.7	.3	.0	802	7.6
69/70	.0	.0	.0	.2	1.0	7.9	16.5	13.7	1.3	.0	.1	.0	356	3.4
67/68	.0	.0	.0	.0	.3	2.8	5.7	2.5	.2	.0	.0	.0	98	.9
65/66	.0	.0	.0	.0	.2	.3	1.6	.6	.1	.0	.0	.0	24	.2
63/64	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	3	*
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	689	445	544	510	614	769	857	977	1348	1129	1447	1305	10574	100.0
MEAN	87.4	82.3	81.2	79.1	76.0	73.7	72.2	72.9	75.2	77.6	79.6	81.8	77.8	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1009	1009	1006	1007	1009	1008	1006	1008	1008	325
FEB	1009	1010	1006	1008	1008	1008	1008	1009	1008	323
MAR	1012	1010	1010	1005	1011	1010	1010	1009	1010	345
APR	1014	1013	1011	1012	1013	1013	1011	1012	1012	308
MAY	1016	1016	1014	1015	1015	1015	1014	1015	1015	354
JUN	1017	1017	1014	1015	1017	1016	1015	1016	1016	342
JUL	1019	1016	1015	1016	1017	1015	1015	1016	1016	437
AUG	1018	1015	1015	1015	1017	1017	1016	1014	1015	378
SEP	1017	1015	1014	1015	1016	1016	1015	1015	1015	318
OCT	1016	1015	1012	1013	1015	1014	1013	1014	1014	300
NOV	1013	1011	1010	1010	1012	1011	1010	1011	1011	568
DEC	1011	1009	1007	1008	1010	1009	1008	1009	1009	611
ANN	1014	1013	1011	1012	1013	1013	1012	1012	1012	4609
OBS	285	707	705	652	375	518	744	623		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	997	998	1001	1005	1007	1010	1013	1013	1014
FEB	996	999	1002	1006	1009	1011	1013	1013	1014
MAR	1000	1003	1004	1008	1010	1012	1014	1015	1016
APR	1004	1006	1008	1011	1012	1014	1016	1016	1017
MAY	1006	1007	1010	1013	1015	1017	1019	1019	1020
JUN	1007	1008	1011	1014	1016	1018	1020	1023	1024
JUL	1008	1008	1010	1014	1016	1018	1021	1022	1025
AUG	1005	1008	1009	1013	1016	1018	1020	1022	1024
SEP	1005	1008	1010	1013	1016	1018	1020	1020	1021
OCT	1004	1005	1008	1012	1014	1016	1019	1020	1021
NOV	1003	1005	1006	1009	1011	1013	1016	1018	1019
DEC	1000	1002	1004	1006	1009	1011	1013	1015	1016

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	6.3	3.2	.0	.0	.0	.0	.0	9.5	.0	3.2	.0	.0	6.3	.0	81.0
NE	3.9	7.2	2.2	.0	.0	.0	.0	13.3	.3	5.0	4.4	.0	2.5	.0	75.6
E	4.6	4.2	2.5	.0	.0	.0	.0	11.4	3.8	2.1	.8	.0	1.5	.0	82.1
SE	4.1	14.8	1.4	.0	.0	.0	.0	20.3	.2	1.7	1.4	.0	2.1	.0	75.7
S	.0	14.0	.0	.0	.0	.0	.0	14.0	.0	.0	9.3	.0	.0	.0	76.7
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	3.2	3.2	.0	.0	.0	.0	.0	6.5	.0	.0	.0	.0	3.2	.0	90.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0	90.0
TOT PCT	4.0	7.8	1.5	.0	.0	.0	.0	13.3	1.1	2.3	1.7	.0	2.5	.0	80.1
TOT OBS:	473														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
00003	1.8	7.1	.0	.0	.0	.0	.0	8.9	2.7	.0	1.8	.0	.9	.0	85.7
06009	4.2	6.3	3.5	.0	.0	.0	.0	14.1	.0	2.1	2.1	.0	4.9	.0	77.5
12015	4.8	9.6	1.2	.0	.0	.0	.0	15.7	.0	7.2	2.4	.0	1.2	.0	75.9
18021	5.3	10.5	1.3	.0	.0	.0	.0	17.1	1.3	1.3	2.0	.0	2.0	.0	77.6
TOT PCT	4.1	8.4	1.6	.0	.0	.0	.0	14.1	1.0	2.2	2.0	.0	2.5	.0	79.1
TOT OBS:	489														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	1.6	8.1	2.2	.0	.1	.0		12.0	7.6	3.8	7.9	12.3	13.9	7.5	14.1	13.4	16.5		
NE	4.3	9.7	2.4	.1	.0	.0		16.5	6.9	10.3	14.2	15.5	23.9	12.5	18.6	14.2	18.2		
E	3.1	11.5	9.8	1.5	.0	.0		25.9	10.6	27.7	26.4	30.9	22.6	43.1	24.4	25.0	18.2		
SE	2.5	11.1	11.9	3.3	.3	.0		29.0	12.6	39.1	28.4	30.2	28.9	31.3	26.3	28.0	26.4		
S	.2	1.3	.9	.1	.0	.0		2.6	10.9	8.2	5.6	2.5	.5	.0	1.3	1.3	2.4		
SW	.6	.6	.3	.0	.0	.0		1.5	6.2	.0	2.3	.9	1.1	.0	1.3	.9	3.8		
W	.2	1.7	.1	.0	.0	.0		2.0	6.5	3.8	3.4	.0	.0	1.9	1.9	2.2	3.8		
NW	1.7	4.9	1.6	.0	.0	.0		8.2	7.0	7.1	10.1	5.0	7.9	1.3	9.6	12.5	7.1		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	2.3							2.3	.0	.0	1.8	2.7	1.1	2.5	2.6	2.6	3.8		
TOT OBS	116	343	205	35	3	0	702		9.5	46	111	110	95	40	78	116	105		
TOT PCT	16.5	48.9	29.2	5.0	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	6.6	5.1	.2	.0	.1			12.0	7.6	6.7	13.0	11.9	14.9
NE	9.1	6.5	.0	.0	.0			16.5	6.9	13.1	19.4	16.5	16.1
E	8.0	13.1	4.5	.3	.0			25.9	10.6	26.8	27.1	30.7	21.7
SE	6.9	13.3	7.5	1.3	.0			29.0	12.6	31.5	29.6	28.0	27.3
S	.6	1.6	.2	.1	.0			2.6	10.9	6.4	1.6	.8	1.8
SW	1.0	.5	.0	.0	.0			1.5	6.2	1.6	1.0	.8	2.3
W	1.1	.9	.0	.0	.0			2.0	6.5	3.5	.0	1.9	2.9
NW	5.0	2.7	.5	.0	.0			8.2	7.0	9.2	6.3	6.8	9.9
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0	1.3	2.0	2.5	3.2
TOT OBS	285	307	97	12	1	702		9.5		157	205	118	222
TOT PCT	40.6	43.7	13.8	1.7	.1			100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOURL	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.3	19.1	49.7	26.1	3.2	.6	.0	8.7	100.0	157
06009	2.0	16.6	44.4	31.2	5.9	.0	.0	9.7	100.0	205
12015	2.5	9.3	43.7	37.3	7.6	.0	.0	11.0	100.0	118
18021	3.2	11.3	55.4	25.2	4.1	.9	.0	9.1	100.0	222
TOT	16	100	343	205	35	3	0	9.5		702
PCT	2.3	14.4	48.9	29.2	5.0	.4	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.3	1.5	2.6	2.0		4.4
NE	5.3	3.0	3.1	1.4		3.8
E	9.5	8.6	10.0	5.4		4.3
SE	4.3	11.2	12.2	2.1		4.3
S	.0	.7	1.3	1.3		6.6
SW	.0	.0	.0	1.3		8.0
W	.0	1.0	2.5	.0		5.4
NW	.7	1.8	1.2	1.3		4.9
VAR	.0	.0	.0	.0		.0
CALM	.7	.0	.0	.0		4.5
TOT OBS	36	42	51	23	152	4.4
TOT PCT	23.7	27.6	33.6	15.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.7	1.0	.0	.0	.5	.0	7.2	
NE	.0	.0	.0	.8	1.3	.7	.0	.0	.2	.7	9.4	
E	.0	.0	.0	.5	3.6	.7	2.6	.5	.0	.7	25.0	
SE	.0	.0	.0	3.3	1.0	2.6	.0	.2	.0	.0	22.7	
S	.0	.0	.0	.7	.7	.0	.7	.0	.0	.0	1.3	
SW	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.5	.0	.0	.0	.7	3.1	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7	
CALM	.0	.0	.0	.8	12	9	6	3	1	3	110	152
TOT OBS	0	0	0	8	12	9	6	3	1	3	110	152
TOT PCT	.0	.0	.0	5.3	7.9	5.9	3.9	2.0	.7	2.0	72.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
>5000	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
>3500	7.9	8.6	8.6	8.6	8.6	8.6	8.6	8.6
>2000	13.2	14.5	14.5	14.5	14.5	14.5	14.5	14.5
>1000	20.4	22.4	22.4	22.4	22.4	22.4	22.4	22.4
>600	23.0	27.6	27.6	27.6	27.6	27.6	27.6	27.6
>300	23.0	27.6	27.6	27.6	27.6	27.6	27.6	27.6
>150	23.0	27.6	27.6	27.6	27.6	27.6	27.6	27.6
>0	23.0	27.6	27.6	27.6	27.6	27.6	27.6	27.6
TOTAL	35	42	42	42	42	42	42	42

TOTAL NUMBER OF OBS: 152

PCT FREQ NH <5/8: 72.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.3	15.7	19.7	16.3	13.5	9.6	5.6	5.6	6.7	.0	178

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4
	NO PCP	.0	1.3	.4	.6	.2	.0	.0	.0	.0	.0	2.5	2.5
	TOT %	.0	1.7	.4	.6	.2	.0	.0	.0	.0	.0	3.0	3.0
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.2	.0	.0	.5	.2	.0	.0	.2	.0	.2	1.3	1.3
	TOT %	.2	.0	.0	.5	.2	.0	.0	.2	.0	.2	1.3	1.3
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.2	.0	.8	.0	.0	.0	.0	.0	.0	1.1	1.1
	TOT %	.0	.2	.0	.8	.0	.0	.0	.0	.0	.0	1.1	1.1
5<10	PCP	.7	1.9	2.6	5.6	.1	.0	.0	.2	.0	.0	11.2	11.2
	NO PCP	3.5	5.2	5.9	9.5	.7	.4	.5	1.5	.0	.6	27.9	27.9
	TOT %	4.2	7.1	8.5	15.1	.8	.4	.5	1.7	.0	.6	39.1	39.1
10+	PCP	.2	.2	.2	.6	.2	.0	.0	.2	.0	.0	1.7	1.7
	NO PCP	5.3	9.8	15.9	13.0	.8	1.7	1.6	4.4	.0	1.3	33.9	33.9
	TOT %	5.5	10.0	16.1	13.6	1.1	1.7	1.6	4.7	.0	1.3	35.6	35.6
TOT OBS													473
TOT PCT		10.0	19.0	25.1	30.7	2.3	2.1	2.2	6.6	.0	2.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.3	.2	.2	.2	.0	.0	.0	.0	.0	.9	.9
	4-10	.0	.7	.0	.3	.0	.0	.0	.0	.0	.0	1.0	1.0
	11-21	.0	.3	.2	.0	.0	.0	.0	.0	.0	.0	.5	.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	1.4	.3	.5	.2	.0	.0	.0	.0	.0	2.4	2.4
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2
	4-10	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.3	.3
	11-21	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.5	.5
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.0	.0	.4	.1	.0	.0	.2	.0	.2	1.0	1.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2
	4-10	.0	.2	.2	.3	.0	.0	.0	.0	.0	.0	.7	.7
	11-21	.1	.0	.2	.7	.0	.0	.0	.1	.0	.0	1.0	1.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.2	.3	1.0	.0	.0	.0	.1	.0	.2	1.9	1.9
5<10	0-3	.3	1.3	1.0	1.5	.0	.0	.2	.4	.0	.5	5.3	5.3
	4-10	2.3	4.2	3.1	6.1	.3	.2	.3	.6	.0	.0	17.2	17.2
	11-21	.7	.7	2.6	4.5	.5	.2	.0	.7	.0	.0	9.8	9.8
	22+	.2	.1	.9	1.4	.0	.0	.0	.0	.0	.0	2.6	2.6
	TOT %	3.5	6.2	7.7	13.5	.9	.3	.5	1.7	.0	.5	34.8	34.8
10+	0-3	1.1	2.5	2.1	1.1	.1	.7	.1	1.4	.0	1.5	10.6	10.6
	4-10	5.4	5.7	6.6	4.8	.8	.5	1.7	3.5	.0	.0	29.0	29.0
	11-21	1.0	1.1	7.4	6.8	.4	.2	.1	.8	.0	.0	17.8	17.8
	22+	.0	.0	.6	1.7	.2	.0	.0	.0	.0	.0	2.4	2.4
	TOT %	7.6	9.3	16.6	14.4	1.5	1.4	1.9	5.7	.0	1.5	59.9	59.9
TOT OBS													583
TOT PCT		11.4	17.1	25.0	29.8	2.7	1.7	2.4	7.6	.0	2.4	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL DBS	NH <5/8 ANY HGT	TOTAL DBS
00003	.0	.0	.0	4.3	10.6	6.4	8.5	.0	2.1	.0	31.9	68.1	47
06009	.0	.0	.0	2.2	2.2	6.5	4.3	2.2	.0	2.2	19.6	80.4	46
12015	.0	.0	.0	5.1	5.1	7.7	.0	.0	.0	.0	17.9	82.1	39
18021	.0	.0	.0	7.7	10.3	.0	.0	5.1	.0	5.1	28.2	71.8	39
TOT PCT	0 .0	0 .0	0 .0	8 4.7	12 7.0	9 5.3	6 3.5	3 1.8	1 .6	3 1.8	42 24.6	129 75.4	171 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	.0	2.2	.7	.7	31.6	64.7	136
06009	.0	4.2	1.8	1.2	34.5	58.3	168
12015	.0	2.1	.0	3.1	35.1	59.8	97
18021	.0	2.0	1.0	2.5	39.9	54.5	198
TOT PCT	0 .0	16 2.7	6 1.0	11 1.8	214 35.7	352 58.8	599 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL DBS
00003	.0	.0	4.7	30.2	65.1	43
06009	.0	.0	2.5	20.0	77.5	40
12015	.0	.0	5.9	14.7	79.4	34
18021	.0	.0	8.6	22.9	68.6	35
TOT PCT	0 .0	0 .0	8 5.3	34 22.4	110 72.4	152 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
90/94	.0	.0	.0	.9	.3	.3	.0	.0	5	1.5
85/89	.0	.3	.0	1.8	3.1	5.2	2.4	3.4	53	16.2
80/84	.0	.0	.0	.0	8.9	23.9	24.5	9.2	217	66.4
75/79	.0	.0	.0	.0	.9	4.9	4.6	5.5	52	15.9
TOTAL	0	1	0	9	43	112	103	59	327	100.0
PCT	.0	.3	.0	2.8	13.1	34.3	31.5	18.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.3	.4	.5	.0	.0	.0	.3	.0	.0	.0
85/89	2.2	3.0	2.7	3.4	.3	1.5	.5	1.9	.0	.6
80/84	8.4	12.7	16.9	17.4	1.1	.9	2.0	5.1	.0	1.8
75/79	1.1	2.4	4.1	4.7	.6	.6	.3	1.5	.0	.6
TOTAL	12.0	18.5	24.2	25.5	2.0	3.1	3.1	8.6	.0	3.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	92	91	88	82	78	75	74	82.4	150
06009	92	90	87	82	78	75	75	82.2	204
12015	88	83	83	80	77	75	75	80.3	118
18021	89	86	84	80	76	74	74	80.2	228
TOT	92	90	87	81	77	75	74	81.3	700

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	3.6	15.7	28.9	30.1	21.7	79	83
06009	.0	5.6	20.0	33.3	27.8	13.3	77	90
12015	.0	1.9	9.4	37.7	37.7	13.2	79	53
18021	.0	.9	6.2	35.4	34.5	23.0	82	113
TOT	0	10	43	114	109	63	80	339

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TABLE 17

PCT FRFQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	.3	1	.0	.3
7/8	.0	.0	.0	.3	.0	1	.0	.3
6	.0	.0	.3	.9	.0	4	.0	1.2
5	.0	.3	.0	1.2	.0	5	.0	1.5
4	.0	.3	.9	2.0	.0	11	.0	3.2
3	.0	.0	2.0	2.6	.0	16	.0	4.7
2	.0	1.2	3.5	1.2	.0	20	.6	5.2
1	.0	3.5	9.9	1.5	.0	51	.3	14.6
0	.3	6.4	14.6	.6	.0	75	1.2	20.7
-1	.0	9.0	6.7	.3	.0	62	.0	18.1
-2	.0	6.4	4.4	.3	.0	38	.3	10.8
-3	.0	5.2	1.5	.0	.0	23	.3	6.4
-4	.3	3.5	1.5	.0	.0	18	.3	5.0
-5	.9	2.3	.3	.0	.0	12	.0	3.5
-6	.0	.6	.0	.0	.0	2	.0	.6
-7/-8	.0	.6	.0	.0	.0	2	.0	.6
-9/-10	.3	.3	.0	.0	.0	2	.0	.6
TOTAL	6	136	163	37	1	343	10	333
PCT	1.7	39.7	47.5	10.8	.3	100.0	2.9	97.1

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TABLE 18

PCT FRFQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	3.6	.0	.0	.0	.0	3.6	.8	2.0	.0	.0	.0	.0	2.8
1-2	1.4	1.8	.8	.0	.0	.0	4.0	1.6	3.4	1.6	.0	.0	.0	6.7
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.2	.0	.0	.0	2.0
5-6	.0	.0	1.6	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	5.4	2.4	.0	.0	.0	9.3	2.4	7.3	1.8	.0	.0	.0	11.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.8	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
1-2	.0	5.4	5.2	.0	.0	.0	10.7	.0	6.7	2.0	.0	.0	.0	8.7
3-4	.0	4.8	8.3	.0	.0	.0	13.1	.0	2.2	6.0	.0	.0	.0	8.3
5-6	.0	.0	7.7	.0	.0	.0	7.7	.0	.8	7.7	.0	.0	.0	8.5
7	.0	.0	1.6	.0	.0	.0	1.6	.0	.0	1.6	.8	.0	.0	2.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	1.6
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.8	.0	.0	1.6
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	11.1	22.8	.0	.0	.0	33.9	.0	9.7	19.8	1.6	.0	.0	31.0

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TABLE 18 (CONT)

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.8	.8	.0	.0	.0	1.6	.0	.0	.8	.0	.0	.0	.0	.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.8	.8	.0	.0	2.4	.0	.0	.8	.0	.0	.0	.0	.8

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.6	.0	.0	.0	.0	.6	.0	1.0	.0	.0	.0	.0	.0	1.0	
1-2	.0	1.6	.6	.0	.0	.0	2.2	1.0	1.2	1.0	.0	.0	.0	.0	3.2	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	1.6	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.2	.6	.0	.0	.0	2.8	1.0	2.2	2.6	.0	.0	.0	5.8	97.6	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.2	6.1	.0	.0	.0	.0	11.3	
1-2	4.0	21.0	12.9	.0	.0	.0	37.9	
3-4	.0	8.9	16.1	.0	.0	.0	25.0	
5-6	.0	.8	16.9	.0	.0	.0	17.7	
7	.0	.0	3.2	1.6	.0	.0	4.8	
8-9	.0	.0	1.6	.0	.0	.0	1.6	
10-11	.0	.0	.8	.8	.0	.0	1.6	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.3	38.7	51.6	2.4	.0	.0	100.0	124

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	7.3	22.0	29.7	9.3	1.3	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	3
6-7	.0	.7	4.0	7.3	2.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	5
8-9	.0	.7	.7	1.3	3.3	.0	4.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	8
10-11	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	4.7	2.0	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	2
TOTAL	18	38	42	31	11	3	6	1	0	0	0	0	0	0	0	0	0	0	0	150	4
PCT	12.0	25.3	28.0	20.7	7.3	2.0	4.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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PERIOD: (PRIMARY) 1927-1969
(OVER-ALL) 1883-1969

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	5.0	4.0	.0	.0	.0	.0	9.0	.0	5.0	4.0	.0	.0	.0	82.0
NE	6.7	12.5	.0	.0	.0	.0	.0	19.2	.0	4.2	.0	.0	.0	.0	76.7
E	4.5	5.6	3.7	.0	.0	.0	.0	13.9	.0	1.5	3.0	.0	1.9	.0	79.8
SE	8.6	9.3	4.2	.0	.0	.0	.0	22.1	1.5	.8	.8	.0	2.1	.0	72.8
S	11.5	9.2	12.2	.0	.0	.0	.0	32.8	.0	.0	.0	.0	3.1	.0	64.1
SW	.0	22.2	.0	.0	.0	.0	.0	22.2	.0	.0	.0	.0	22.2	.0	55.6
W	.0	18.2	.0	.0	.0	.0	.0	18.2	.0	.0	.0	.0	.0	.0	81.8
NW	.0	.0	4.5	.0	.0	.0	.0	4.5	.0	2.3	.0	.0	.0	.0	93.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	6.2	8.0	4.3	.0	.0	.0	.0	18.5	.6	1.5	1.2	.0	1.9	.0	76.2
TOT OBS:	324														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
0000Z	4.4	4.4	7.4	.0	.0	.0	.0	16.2	.0	.0	.0	.0	5.9	.0	77.9
0600Z	6.5	8.6	3.2	.0	.0	.0	.0	18.3	1.1	1.1	.0	.0	.0	.0	79.6
1200Z	8.6	12.9	.0	.0	.0	.0	.0	21.4	.0	4.3	4.3	.0	1.4	.0	68.6
1800Z	6.0	7.0	6.0	.0	.0	.0	.0	19.0	1.0	1.0	1.0	.0	2.0	.0	76.0
TOT PCT	6.3	8.2	4.2	.0	.0	.0	.0	18.7	.6	1.5	1.2	.0	2.1	.0	75.8
TOT OBS:	331														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	2.2	6.0	1.6	.1	.0	.0		9.9	7.3	10.7	12.2	8.0	9.1	7.6	13.1	11.1	7.0
NE	.6	8.3	1.9	.1	.0	.0		10.9	8.3	9.3	12.8	6.0	17.1	29.5	15.6	6.3	3.2
E	1.7	13.6	6.7	1.5	.0	.0		23.5	10.4	24.3	18.1	30.7	25.4	22.0	21.3	25.0	20.5
SE	2.3	12.5	17.4	4.8	.2	.0		37.3	13.1	22.9	39.6	39.3	36.5	29.5	34.4	37.5	45.6
S	.3	3.6	2.9	1.3	.2	.0		8.3	13.5	20.7	6.6	5.3	6.3	6.8	6.6	8.0	10.8
SW	.2	.4	.0	.0	.0	.0		1.1	6.2	.7	2.8	1.3	.0	.8	.0	1.1	1.3
W	.2	1.2	.0	.1	.0	.0		1.5	7.7	2.9	1.4	.7	.0	.0	2.5	1.7	2.5
NW	1.2	4.3	.6	.1	.0	.0		6.2	6.7	3.7	6.6	7.3	5.6	3.8	4.9	7.1	6.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0	2.9	.0	1.3	.0	.0	1.6	2.3	2.5
TOT OBS	51	255	157	41	2	0	506		10.7	35	72	75	63	33	61	88	79
TOT PCT	10.1	50.4	31.0	8.1	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	4.6	4.9	.3	.0	.0		9.9	7.3	11.7	8.5	11.2	9.1
NE	4.5	5.6	.7	.0	.0		10.9	8.3	11.7	11.1	20.5	4.8
E	6.1	13.9	3.1	.4	.0		23.5	10.4	20.1	28.3	21.5	22.9
SE	7.3	17.6	11.6	.8	.0		37.3	13.1	34.1	38.0	32.7	41.3
S	1.9	3.7	2.1	.5	.0		8.3	13.5	11.2	5.8	6.6	9.3
SW	.6	.5	.0	.0	.0		1.1	6.2	2.1	.7	.3	1.2
W	.6	.8	.1	.0	.0		1.5	7.7	1.9	.4	1.6	2.1
NW	3.8	2.4	.1	.0	.0		6.2	6.7	6.3	6.5	4.5	6.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	.9	.7	1.1	2.4
TOT OBS	156	250	91	9	0	506		10.7	107	138	94	167
TOT PCT	30.8	49.4	18.0	1.6	.0		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1922-1969
(OVER-ALL) 1883-1969

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	.9	13.1	52.3	24.3	8.4	.9	.0	.0	9.9	100.0	107
06009	.7	8.0	47.1	36.2	8.0	.0	.0	.0	11.2	100.0	138
12015	1.1	6.4	52.1	31.9	7.4	1.1	.0	.0	11.2	100.0	94
18021	2.4	7.8	50.9	30.5	8.4	.0	.0	.0	10.4	100.0	167
TOT	7	44	255	157	41	2	.0	.0	10.7		506
PCT	1.4	8.7	50.4	31.0	8.1	.4	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.1	1.5	3.0	.0		3.1
NE	6.0	1.5	3.6	1.7		3.5
E	9.8	9.6	3.6	.9		3.2
SE	6.4	7.9	9.6	5.1		4.6
S	2.1	5.1	2.1	3.4		4.6
SW	.4	.0	.0	.0		1.0
W	.9	.0	.0	.9		5.0
NW	3.6	.9	2.8	.0		3.2
VAR	.0	.0	.0	.0		.0
CALM	1.7	.9	.9	.0		2.5
TOT OBS	41	32	30	14	117	3.8
TOT PCT	35.0	27.4	25.6	12.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999			OBS
N	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	7.9	
NE	.0	.0	.0	.9	.9	.2	.0	.0	.0	.0	10.9	
E	.0	.0	.0	.9	2.1	.9	.0	.0	.0	.0	20.1	
SE	.0	.0	1.1	1.7	3.6	1.7	.9	.0	.0	.0	20.1	
S	.0	.0	.6	.9	1.9	.9	.0	.0	.0	.0	8.5	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
TOT OBS	.0	.0	2	5	10	5	2	0	0	0	93	117
TOT PCT	.0	.0	1.7	4.3	8.5	4.3	1.7	.0	.0	.0	79.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			VSBY (NM)			VSBY (NM)			TOTAL
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0		
>6500	.0	.0	.0	.0	.0	.0	.0	.0		.0
>5000	.0	.0	.0	.0	.0	.0	.0	.0		.0
>3500	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7		1.7
>2000	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9		5.9
>1000	12.7	13.6	14.4	14.4	14.4	14.4	14.4	14.4		14.4
>600	15.3	16.9	18.6	18.6	18.6	18.6	18.6	18.6		18.6
>300	15.3	17.8	20.3	20.3	20.3	20.3	20.3	20.3		20.3
>150	15.3	17.8	20.3	20.3	20.3	20.3	20.3	20.3		20.3
>0	15.3	17.8	20.3	20.3	20.3	20.3	20.3	20.3		20.3
TOTAL	18	21	24	24	24	24	24	24		24

TOTAL NUMBER OF OBS: 118

PCT FREQ NH <5/8: 79.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL
											OBS
	5.5	29.1	22.8	13.4	7.9	6.3	2.4	3.9	8.7	.0	127

PERIOD: (PRIMARY) 1922-1969
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	.3
	NO PCP	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
	TOT %	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.6	.6
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.2	.8	.3	.3	.0	.0	.0	.0	1.5	1.5
	TOT %	.0	.0	.2	.8	.3	.3	.0	.0	.0	.0	1.5	1.5
2<5	PCP	.0	.3	.3	.5	.5	.0	.0	.0	.0	.0	1.5	1.5
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.3	.3	.5	.5	.0	.0	.0	.0	.0	1.5	1.5
5<10	PCP	.2	1.4	1.7	5.9	1.7	.3	.3	.0	.0	.0	11.4	11.4
	NO PCP	2.3	2.0	5.4	13.7	2.0	.3	.8	3.4	.0	.6	30.6	30.6
	TOT %	2.5	3.4	7.1	19.6	3.7	.6	1.1	3.4	.0	.6	42.0	42.0
10+	PCP	.5	.1	.8	2.3	1.2	.0	.0	.3	.0	.0	5.2	5.2
	NO PCP	4.4	5.5	12.2	17.1	4.5	.5	.6	3.1	.0	1.2	49.1	49.1
	TOT %	4.9	5.6	13.0	19.4	5.6	.5	.6	3.4	.0	1.2	54.3	54.3
TOT OBS													324
TOT PCT		7.7	9.3	20.6	40.6	10.1	1.4	1.7	6.8	.0	1.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.5	.9	.4	.2	.0	.0	.0	.0	2.0	2.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.2	.1	.4	.0	.0	.4	.0	.0	1.2	1.2
	11-21	.1	.2	.1	.4	.0	.0	.0	.1	.0	.0	1.0	1.0
	22+	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.5	.5
	TOT %	.2	.2	.5	.9	.4	.0	.0	.5	.0	.0	2.7	2.7
5<10	0-3	.4	.2	.5	1.6	.2	.0	.0	1.0	.0	.5	4.5	4.5
	4-10	1.4	1.7	2.2	4.4	.9	.5	.7	2.0	.0	.0	13.9	13.9
	11-21	.4	.9	3.2	9.5	1.4	.0	.0	.0	.0	.0	15.4	15.4
	22+	.1	.1	.9	3.1	1.0	.0	.1	.1	.0	.0	5.5	5.5
	TOT %	2.2	3.0	6.8	18.6	3.6	.5	.9	3.1	.0	.5	39.2	39.2
10+	0-3	1.0	.4	1.3	.8	.0	.2	.2	.5	.0	1.2	5.7	5.7
	4-10	3.1	5.6	10.5	6.6	2.4	.1	.5	2.4	.0	.0	31.3	31.3
	11-21	.9	.5	3.4	9.9	1.6	.0	.0	.4	.0	.0	16.6	16.6
	22+	.0	.1	.2	1.1	.7	.0	.0	.0	.0	.0	2.0	2.0
	TOT %	5.0	6.6	15.4	18.4	4.7	.4	.7	3.2	.0	1.2	55.6	55.6
TOT OBS													403
TOT PCT		7.7	9.8	23.2	39.0	9.0	1.1	1.6	6.8	.0	1.7	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1922-1969
(OVER-ALL) 1863-1969AREA 0003 CUMBERLAND ISLANDS
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1499	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	5.7	2.9	2.9	2.9	.0	.0	.0	14.3	85.7	35
06009	.0	.0	6.7	3.3	3.3	3.3	3.3	.0	.0	.0	20.0	80.0	30
12015	.0	.0	.0	3.0	18.2	6.1	.0	.0	.0	.0	27.3	72.7	33
18021	.0	.0	.0	3.8	7.7	3.8	.0	.0	.0	.0	15.4	84.6	26
TOT	0	0	2	5	10	5	2	0	0	0	24	100	124
PCT	.0	.0	1.6	4.0	8.1	4.0	1.6	.0	.0	.0	19.4	80.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	4.5	3.4	27.7	69.3	88
06009	.0	.9	.9	2.7	41.8	53.6	110
12015	.0	1.3	3.8	3.8	39.7	51.3	78
18021	.0	.0	1.5	1.5	48.5	48.5	134
TOT	0	2	10	11	162	225	410
PCT	.0	.5	2.4	2.7	39.5	54.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	5.9	8.8	85.3	34
06009	.0	6.7	10.0	10.0	80.0	30
12015	.0	.0	6.5	22.6	71.0	31
18021	.0	.0	4.3	13.0	82.6	23
TOT	0	2	8	16	94	118
PCT	.0	1.7	6.8	13.6	79.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/94	.0	.0	.0	.4	1.1	.0	.0	.0	4	1.5
55/89	.0	.0	.0	.0	2.9	3.7	4.4	1.1	33	12.1
60/84	.0	.0	.0	.4	8.1	22.1	25.4	10.7	181	66.5
75/79	.0	.0	.0	.4	6.6	4.8	7.4	.0	52	19.1
70/74	.0	.0	.0	.0	.0	.0	.0	.7	2	.7
TOTAL	0	0	0	2	34	88	94	54	272	100.0
PCT	.0	.0	.0	.7	12.5	32.4	34.6	19.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/94	.0	.0	.2	.6	.0	.4	.0	.4	.0	.0
55/89	1.6	.1	2.8	4.5	1.2	.0	.4	1.7	.0	.0
60/84	5.6	7.4	16.2	22.1	6.8	.9	1.3	5.5	.0	.7
75/79	.2	1.3	3.2	11.6	1.7	.0	.0	.0	.0	1.1
70/74	.0	.0	.0	.6	.2	.0	.0	.0	.0	.0
TOT	7.4	8.8	22.3	39.2	9.9	1.3	1.7	7.5	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	91	90	87	82	77	75	75	82.4	102
06009	90	89	87	82	76	76	75	82.0	135
12015	84	83	83	80	76	75	75	80.3	93
18021	88	87	84	80	76	74	71	80.0	165
TOT	91	89	86	81	76	74	71	81.1	495

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.8	17.9	42.9	23.2	14.3	77	56
06009	.0	1.3	23.8	37.5	23.8	13.8	77	80
12015	.0	.0	3.4	31.0	37.9	27.6	83	58
18021	.0	.0	3.6	22.9	49.4	24.1	84	83
TOT	0	2	34	91	95	55	80	277

FEBRUARY

PERIOD: (PRIMARY) 1927-1969
(OVER-ALL) 1883-1969

TABLE 17

AREA 0003 CUMBERLAND ISLANDS
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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	NO FOG
9/10	.0	.0	.0	.4	.0	1	.0	.4
7/8	.0	.0	.4	.0	1.3	4	.0	1.7
6	.0	.0	.0	.4	.9	3	.0	1.3
5	.0	.4	.9	.4	.0	4	.0	1.7
4	.0	.4	.9	2.6	.0	9	.0	3.9
3	.0	.0	2.6	3.9	.0	15	.0	6.4
2	.0	3.0	3.9	1.7	.0	20	.0	8.6
1	.0	1.3	13.3	1.3	.0	37	.4	15.5
0	.0	3.4	14.2	1.3	.0	44	.4	18.5
-1	.4	4.7	8.6	.0	.0	32	.0	13.7
-2	1.3	8.2	6.9	.0	.0	38	.4	15.9
-3	.4	3.9	2.1	.4	.0	16	.0	6.9
-4	.0	2.1	.4	.0	.0	6	.0	2.6
-5	.0	.4	.4	.0	.0	2	.0	.9
-6	.0	.9	.0	.0	.0	2	.0	.9
TOTAL	5		127		5	233	3	230
PCT	2.1	28.8	54.5	12.4	2.1	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	1.0	.0	.0	.0	.0	2.4	.0	1.7	.0	.0	.0	.0	1.7
1-2	1.4	7.5	1.4	.0	.0	.0	10.3	.0	6.8	.0	.0	.0	.0	6.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.4	.0	.0	.0	2.7
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.7	8.6	1.4	.0	.0	.0	12.7	.0	9.9	1.4	.0	.0	.0	11.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	1.4	.0	.0	.0	.0	2.4	.3	.0	.0	.0	.0	.0	.3
1-2	1.4	4.8	3.4	.0	.0	.0	9.6	.0	7.9	4.8	.0	.0	.0	12.7
3-4	.0	1.4	2.4	.0	.0	.0	3.8	.0	1.4	9.2	.0	.0	.0	10.6
5-6	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	4.5	1.4	.0	.0	5.8
7	.0	1.0	.0	.0	.0	.0	1.0	.0	.3	1.4	.0	.0	.0	1.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	1.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	.0	.0	.0	1.4
12	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	8.6	8.2	.0	.0	.0	19.2	.3	9.6	21.2	2.7	.0	.0	33.9

PERIOD: (OVER-ALL) 1963-1969

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.1	1.4	.0	.0	.0	3.4	.0	.3	.0	.0	.0	.0	.0	.3
3-4	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.4	3.4	.0	.0	.0	6.8	.0	.3	.0	.0	.0	.0	.0	.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	.0	1.4	.0	.0	.0	.0	1.4	1.4	.0	.0	.0	.0	.0	1.4	1.4
1-2	.0	.0	.0	.0	.0	.0	.0	1.4	7.5	.0	.0	.0	.0	8.9	8.9
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	.0	.0	.0	.0	1.4	2.7	7.5	.0	.0	.0	.0	10.3	95.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.5	6.8	.0	.0	.0	.0	16.2	16.2
1-2	4.1	36.5	10.8	.0	.0	.0	51.4	51.4
3-4	.0	4.1	14.9	.0	.0	.0	18.9	18.9
5-6	.0	.0	5.4	1.4	.0	.0	6.8	6.8
7	.0	1.4	1.4	.0	.0	.0	2.7	2.7
8-9	.0	.0	.0	1.4	.0	.0	1.4	1.4
10-11	.0	.0	1.4	.0	.0	.0	1.4	1.4
12	.0	.0	1.4	.0	.0	.0	1.4	1.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	13.5	48.6	35.1	2.7	.0	.0	100.0	74

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.9	37.5	16.1	.0	1.8	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	2
6-7	.0	2.7	5.4	2.7	.9	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	4
8-9	.0	.9	.0	.9	4.5	2.7	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	9.8	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	0
TOTAL	21	48	24	4	8	4	2	1	0	0	0	0	0	0	0	0	0	0	0	112	3
PCT	19.8	42.9	21.4	3.6	7.1	3.6	1.8	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1923-1969
(OVER-ALL) 1882-1969

MARCH

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
N	.0	5.6	.0	.0	.0	.0	.0	5.6	.0	5.6	.0	.0	.0	88.7
NE	6.8	5.5	.0	.0	.0	.0	.0	12.3	9.5	.0	.0	.0	1.4	80.8
E	3.6	13.0	.0	.0	.0	.0	.0	16.6	.0	.0	1.9	.0	1.6	79.9
SE	5.7	8.8	1.1	.0	.0	.0	.0	15.6	6.3	.6	1.4	.0	1.1	75.0
S	5.4	8.1	.0	.0	.0	.0	.0	13.5	.0	5.4	.0	.0	2.7	78.4
SW	.0	27.6	.0	.0	.0	.0	.0	27.6	.0	.0	.0	.0	.0	72.4
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	4.5	9.3	.6	.0	.0	.0	.0	14.4	3.6	.9	1.2	.0	1.2	78.7
TOT OBS:	334													

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SIG WEA
00003	6.0	6.0	.0	.0	.0	.0	.0	12.0	1.2	.0	.0	.0	1.2	85.5
06009	3.1	7.1	1.0	.0	.0	.0	.0	11.2	3.1	.0	2.0	.0	2.0	81.6
12015	3.0	13.6	1.5	.0	.0	.0	.0	18.2	3.0	3.0	3.0	.0	1.5	71.2
18021	7.1	12.1	.0	.0	.0	.0	.0	19.2	6.1	1.0	.0	.0	1.0	72.7
TOT PCT	4.9	9.5	.6	.0	.0	.0	.0	15.0	3.5	.9	1.2	.0	1.4	78.0
TOT OBS:	346													

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	4.0	.5	.0	.0	.0		5.2	6.7	2.6	8.7	6.5	2.3	3.0	5.4	7.3	1.8	
NE	1.1	3.2	1.2	.2	.1	.0		5.7	8.6	8.3	7.2	4.5	3.9	3.8	8.5	5.3	4.9	
E	1.5	12.7	8.4	.7	.1	.0		23.4	10.4	11.5	17.5	23.2	25.8	24.2	27.7	27.3	23.0	
SE	2.0	15.6	27.2	6.7	.4	.0		51.9	14.0	64.7	53.0	53.1	52.3	62.9	47.7	46.0	49.1	
S	.9	3.2	2.1	.3	.0	.0		6.5	9.6	10.3	7.5	5.1	5.5	3.0	4.6	.0	9.5	
SW	.4	.7	.2	.0	.0	.0		1.3	6.2	.0	2.7	2.2	1.6	.0	.0	1.0	1.2	
W	.4	.1	.0	.0	.0	.0		.5	2.6	.0	.0	.0	.8	.0	.8	.5	1.2	
NW	.5	3.0	.2	.0	.0	.0		3.7	6.4	.0	2.1	3.1	7.8	3.0	3.8	1.8	7.3	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.8							1.8	.0	2.6	1.2	2.2	.0	.0	1.5	5.0	.0	
TOT OBS	52	235	221	44	3	0	555		11.5	39	83	89	64	33	65	100	82	
TOT PCT	9.4	42.3	39.8	7.9	.5	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	2.9	2.3	.0	.0	.0	.0	5.2	6.7	6.8	4.7	4.6	4.8
NE	2.6	2.7	.3	.1	.0	.0	5.7	8.6	7.6	4.2	6.9	5.1
E	6.5	13.9	2.3	.6	.0	.0	23.4	10.4	13.6	24.5	26.5	26.2
SE	6.3	27.8	13.5	2.3	.0	.0	51.9	14.0	56.8	52.8	52.8	47.4
S	2.1	3.6	.8	.0	.0	.0	6.5	9.6	8.4	5.2	4.1	7.6
SW	.8	.5	.0	.0	.0	.0	1.3	6.2	1.8	2.0	.0	1.1
W	.5	.0	.0	.0	.0	.0	.5	2.6	.0	.3	.5	.8
NW	2.2	1.5	.0	.0	.0	.0	3.7	6.4	1.4	5.1	3.6	4.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8						1.8	.0	1.6	1.3	1.0	2.7
TOT OBS	142	291	105	17	0	555		11.5	122	153	98	182
TOT PCT	25.6	52.4	18.9	3.1	.0		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1963-1969
(OVER-ALL) 1887-1969

TABLE 4

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PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.6	10.7	37.7	44.3	5.7	.0	.0	11.4	100.0	122
0600	1.3	7.8	41.2	39.2	9.2	1.5	.0	12.0	100.0	153
1200	1.0	2.0	48.0	39.8	9.2	.0	.0	12.0	100.0	98
1800	2.7	8.1	43.4	37.4	7.7	.5	.0	10.8	100.0	182
TOT	10	42	235	221	44	3	0	11.5		555
PCT	1.8	7.6	42.3	39.8	7.9	.5	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.6	.0	1.4	.0		2.6
NE	.9	2.1	1.6	.7		4.1
E	5.7	5.5	6.0	1.4		3.9
SE	15.7	17.4	16.2	13.3		4.5
S	1.2	2.6	1.0	1.2		4.2
SW	.0	.0	.0	.0		.0
W	.0	.0	.0	.0		.0
NW	.9	.0	.0	.7		3.7
VAR	.0	.0	.0	.0		.0
CALM	1.4	.0	.7	.0		2.3
TOT OBS	41	40	39	25	145	4.2
TOT PCT	28.3	27.6	26.9	17.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

OBS	149	150	299	599	600	999	1000	1999	2000	3499	3500	4999	5000	6499	7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	
NE	.0	.0	.0	.0	.0	.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	4.3	
E	.0	.0	.0	.0	.0	1.2	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.0	
SE	.0	.0	.7	8.3	9.0	2.8	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	40.5	
S	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
TOT OBS	0	0	1	13	16	7	2	1	0	0	105						145	
TOT PCT	.0	.0	.7	9.0	11.0	4.8	1.4	.7	.0	.0	72.4						100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			OR			OR		
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>0
OR >4500	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >3000	.7	.7	.7	.7	.7	.7	.7	.7	.7
OR >2500	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
OR >2000	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9
OR >1000	15.2	16.6	17.9	17.9	17.9	17.9	17.9	17.9	17.9
OR >600	20.0	23.4	26.9	26.9	26.9	26.9	26.9	26.9	26.9
OR >300	20.0	24.1	27.6	27.6	27.6	27.6	27.6	27.6	27.6
OR >150	20.0	24.1	27.6	27.6	27.6	27.6	27.6	27.6	27.6
OR >0	20.0	24.1	27.6	27.6	27.6	27.6	27.6	27.6	27.6
TOTAL	29	35	40	40	40	40	40	40	40

TOTAL NUMBER OF OBS: 145

PCT FREQ NH <5/8: 72.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.9	11.5	23.6	17.6	10.9	6.7	4.8	4.2	12.7	.0	165

PERIOD: (PRIMARY) 1923-1969
(OVER-ALL) 1887-1969

MARCH

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
	NO PCP	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.3	.3
	TOT %	.0	.3	.2	.2	.0	.0	.0	.0	.0	.0	.6	.6
1<2	PCP	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	.6
	NO PCP	.0	.0	.3	.8	.2	.0	.0	.0	.0	.0	1.2	1.2
	TOT %	.0	.0	.3	1.4	.2	.0	.0	.0	.0	.0	1.8	1.8
2<5	PCP	.0	.0	.3	.4	.3	.0	.0	.0	.0	.0	1.5	1.5
	NO PCP	.0	.1	.5	.6	.0	.0	.0	.0	.0	.0	1.2	1.2
	TOT %	.0	.1	.8	1.5	.3	.0	.0	.0	.0	.0	2.7	2.7
5<10	PCP	.3	.3	2.9	5.4	.5	.6	.0	.0	.0	.0	9.9	9.9
	NO PCP	1.1	1.1	4.4	11.6	1.4	.3	.3	2.0	.0	.0	21.9	21.9
	TOT %	1.4	1.4	7.2	17.0	1.8	.9	.3	2.0	.0	.0	31.8	31.8
10+	PCP	.0	.1	.7	1.4	.0	.0	.0	.0	.0	.0	2.1	2.1
	NO PCP	4.0	3.7	14.0	31.5	3.3	1.3	.3	2.0	.0	.9	61.0	61.0
	TOT %	4.0	3.8	14.6	32.9	3.3	1.3	.3	2.0	.0	.9	63.1	63.1
TOT OBS													333
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.6	.6
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.2	1.1	.0	.0	.0	.0	.0	.0	1.3	1.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.2	1.2	.1	.0	.0	.0	.0	.0	1.6	1.6
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.2	.4	.2	.0	.0	.0	.0	.0	.0	.9	.9
	11-21	.0	.1	.2	.4	.0	.0	.0	.0	.0	.0	.7	.7
	22+	.0	.0	.0	.7	.2	.0	.0	.0	.0	.0	.9	.9
	TOT %	.0	.3	.6	1.3	.2	.0	.0	.0	.0	.0	2.4	2.4
5<10	0-3	.2	.2	.1	.6	.2	.0	.2	.4	.0	.0	2.0	2.0
	4-10	1.2	.4	4.0	2.9	3.3	.4	.1	1.6	.0	.0	12.0	12.0
	11-21	.0	.7	2.2	7.7	.0	.2	.0	.0	.0	.0	10.9	10.9
	22+	.0	.2	.1	2.8	.0	.0	.0	.0	.0	.0	3.1	3.1
	TOT %	1.4	1.6	6.4	13.9	3.2	.7	.3	2.0	.0	.0	28.0	28.0
10+	0-3	.6	1.0	1.1	.9	.6	.5	.2	.2	.0	1.3	6.4	6.4
	4-10	2.8	2.3	9.1	13.3	1.4	.4	.0	1.7	.0	.0	31.6	31.6
	11-21	.6	.6	5.6	17.9	.0	.0	.0	.3	.0	.0	25.8	25.8
	22+	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	3.6	3.6
	TOT %	3.9	3.9	15.8	35.4	3.0	.9	.2	2.2	.0	1.3	67.3	67.3
TOT OBS													450
TOT PCT													100.0

MARCH

 PERIOD: (PRIMARY) 1923-1969
 (OVER-ALL) 1882-1969

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TABLE 10

 PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
 OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	5.3	18.4	2.6	2.6	.0	.0	.0	28.9	71.1	38
06009	.0	.0	.0	9.1	9.1	4.5	.0	.0	.0	.0	22.7	77.3	44
12015	.0	.0	3.1	12.5	9.4	6.3	3.1	.0	.0	.0	34.4	65.6	32
18021	.0	.0	.0	6.8	4.5	4.5	.0	2.3	.0	.0	18.2	81.8	44
TOT	0	0	1	13	16	7	2	1	0	0	40	118	158
PCT	.0	.0	.6	8.2	10.1	4.4	1.3	.6	.0	.0	25.3	74.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.0	1.0	1.0	24.3	72.8	103
06009	.0	.8	.0	6.3	33.6	59.4	128
12015	.0	.0	4.7	2.4	25.9	67.1	85
18021	.0	.7	1.4	.7	29.5	67.8	146
TOT	0	3	7	12	133	307	462
PCT	.0	.6	1.5	2.6	28.8	66.5	100.0

TABLE 12

 CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
 CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	5.6	25.0	69.4	36
06009	.0	.0	15.4	12.8	71.8	39
12015	.0	3.3	20.0	16.7	63.3	30
18021	.0	.0	7.5	12.5	80.0	40
TOT	0	1	17	24	104	145
PCT	.0	.7	11.7	16.6	71.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
50/94	.0	.0	.0	.0	1.2	.0	.0	.0	2	1.2
55/89	.0	.0	.0	.8	3.1	1.6	.4	.4	16	6.3
60/84	.0	.0	.0	1.2	10.6	20.5	16.1	2.0	128	50.4
75/79	.0	.0	.0	.0	5.1	14.6	9.8	11.4	104	40.9
70/74	.0	.0	.0	.0	.0	.0	1.2	.0	3	1.2
TOTAL	0	0	0	5	51	93	70	35	254	100.0
PCT	.0	.0	.0	2.0	20.1	36.6	27.6	13.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
50/94	.4	.0	.0	.4	.3	.1	.0	.0	.0	.0
55/89	.7	.4	1.4	2.6	.4	.0	.2	.7	.0	.0
60/84	3.6	2.8	14.1	22.1	2.8	.8	.2	2.9	.0	1.2
75/79	.4	1.1	8.2	27.3	3.2	.8	.0	.0	.0	.0
70/74	.0	.0	.4	.4	.0	.4	.0	.0	.0	.0
TOTAL	5.1	4.2	24.0	52.8	6.7	2.1	.4	3.5	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	91	90	87	81	77	74	74	81.4	121
06009	90	89	85	80	76	74	74	80.8	148
12015	86	85	83	79	76	73	73	79.5	96
18021	84	83	82	79	75	74	73	78.7	182
TOT	91	88	85	80	76	74	73	80.0	547

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.0	25.4	46.0	25.4	3.2	75	63
06009	.0	6.0	26.2	39.3	21.4	7.1	75	84
12015	.0	.0	10.5	34.2	26.3	28.9	82	38
18021	.0	.0	13.8	27.5	36.3	22.5	82	80
TOT	0	5	53	97	73	37	78	265

PERIOD: (PRIMARY) 1923-1949
(OVER-ALL) 1802-1969

MARCH

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.4	.0	1	.0	.4
7/8	.0	.4	.4	1.2	.4	6	.0	2.4
6	.0	.0	.0	.0	.4	1	.0	.4
5	.0	.4	1.2	.4	.0	5	.0	2.0
4	.0	.0	2.4	.8	.8	10	.0	4.0
3	.0	.8	1.2	.4	.0	6	.0	2.4
2	.0	2.4	5.2	.0	.0	19	.4	7.2
1	.0	4.0	8.8	.0	.0	32	.8	12.0
0	.0	6.4	10.0	.4	.0	42	.4	16.4
-1	.0	12.8	2.8	.0	.0	39	.0	15.6
-2	1.2	9.6	2.8	.0	.0	34	.0	13.6
-3	.8	7.2	.8	.4	.0	23	.0	9.2
-4	2.4	5.2	.8	.0	.0	21	.0	8.4
-5	.4	.8	.0	.0	.0	3	.0	1.2
-6	1.2	.8	.0	.0	.0	5	.0	2.0
-7/-8	.0	.4	.4	.0	.0	2	.0	.8
-9/-10	.4	.0	.0	.0	.0	1	.0	.4
TOTAL	16	128	92	10	4	250	4	246
PCT	6.4	51.2	36.8	4.0	1.6	100.0	1.6	98.4

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.9	.0	.0	.0	.0	1.8	.0	1.9	.0	.0	.0	.0	1.8
1-2	.0	2.8	.0	.0	.0	.0	2.8	.9	2.3	.0	.0	.0	.0	3.2
3-4	.0	.0	1.6	.0	.0	.0	1.6	.0	.0	1.8	.0	.0	.0	1.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.9	4.1	2.1	.0	.0	.0	7.1
TOT PCT	.9	3.7	1.6	.0	.0	.0	6.2	.9	4.1	2.1	.0	.0	.0	7.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.7	.0	.0	.0	1.6	.0	.0	2.1	.0	.0	.0	2.1
1-2	.0	5.5	3.0	.0	.0	.0	8.5	.0	10.8	2.8	.0	.0	.0	13.5
3-4	.0	3.9	4.4	.0	.0	.0	8.3	.0	6.4	9.4	3.7	.0	.0	19.5
5-6	.0	.9	3.4	.0	.0	.0	4.4	.0	.0	10.1	3.7	.0	.0	13.8
7	.0	.0	.9	.0	.0	.0	.9	.0	.0	4.6	2.8	.9	.0	8.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	17.2	28.9	10.1	.9	.0	57.1
TOT PCT	.0	11.2	12.4	.0	.0	.0	23.6	.0	17.2	28.9	10.1	.9	.0	57.1

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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WIND SPEED (KTS) VS SEA HEIGHT (FT)PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)[illegible]

APRIL

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1884-1969AREA 0003 CUMBERLAND ISLANDS
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD	SMOKE	SPRAY	NO SIG
N	.0	2.0	.0	.0	.0	.0	.0	2.0	.0	.0	2.0	.0	.0	.0	96.0
NE	7.1	.0	.0	.0	.0	.0	.0	7.1	.0	.0	1.2	.0	.0	.0	91.8
E	3.5	.0	.0	.0	.0	.0	.0	3.5	2.6	.5	1.4	.0	1.9	.0	90.6
SE	4.2	2.3	.0	.0	.0	.0	.0	6.5	1.3	.3	1.4	.0	.0	.0	90.8
S	1.7	1.1	.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	97.2
SW	.0	4.3	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	8.7	.0	87.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	2.2	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	97.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.3	1.3	.0	.0	.0	.0	.0	4.7	1.1	.2	1.1	.0	.7	.0	92.4
TOT OBS:	450														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD	SMOKE	SPRAY	NO SIG
0000	1.0	2.0	.0	.0	.0	.0	.0	3.0	2.0	1.0	.0	.0	1.0	.0	93.9
0600	3.2	.6	.0	.0	.0	.0	.0	3.9	.0	.0	1.9	.0	.6	.0	93.5
1200	4.8	3.6	.0	.0	.0	.0	.0	8.3	1.2	.0	3.6	.0	.0	.0	86.9
1800	4.9	1.6	.0	.0	.0	.0	.0	6.5	1.6	.0	.0	.0	.8	.0	91.1
TOT PCT	3.5	1.7	.0	.0	.0	.0	.0	5.2	1.1	.2	1.3	.0	.7	.0	91.8
TOT OBS:	461														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.9	2.7	.2	.0	.0	.0		4.9	4.9		2.0	4.0	2.3	7.6	3.1	8.0	6.1	4.0
NE	1.7	6.1	.7	.2	.0	.0		8.6	6.4		7.4	10.1	8.5	9.2	10.2	12.7	7.6	4.0
E	1.6	12.4	7.4	.4	.0	.0		22.1	9.7		20.9	22.5	24.1	22.4	37.5	26.0	15.9	17.2
SE	1.5	16.8	22.6	1.9	.2	.0		42.9	12.3		52.0	31.9	50.5	44.2	40.6	38.0	46.8	41.7
S	.5	5.1	3.7	.9	.2	.0		10.4	11.5		11.5	14.6	7.8	8.7	4.7	5.3	8.8	18.7
SW	.5	1.1	.6	.0	.0	.0		2.2	7.9		.0	5.2	.0	1.1	.8	2.0	1.7	4.3
W	.5	1.0	.2	.0	.0	.0		1.7	6.4		.0	4.5	1.8	.0	.0	.0	2.5	2.0
NW	1.3	2.5	.9	.0	.0	.0		4.7	6.2		.7	6.2	1.4	6.3	.0	8.0	2.7	8.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0		5.4	1.0	3.7	.0	3.1	.0	7.8	.0
TOT OBS	78	304	232	22	2	0	638		10.0		37	101	109	95	32	75	102	87
TOT PCT	12.2	47.6	36.4	3.4	.3	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	3.7	1.2	.0	.0	.0			4.9	4.9		3.4	4.8	6.5	5.2
NE	5.7	2.0	.0	.2	.0			8.6	6.4		9.4	8.8	11.9	6.0
E	6.5	12.9	2.6	.0	.0			22.1	9.7		22.1	23.3	29.4	16.5
SE	7.4	24.1	11.1	.2	.2			42.9	12.3		37.3	47.5	38.8	44.4
S	2.9	5.6	1.8	.0	.2			10.4	11.5		13.8	8.2	5.1	13.4
SW	1.2	.8	.2	.0	.0			2.2	7.9		3.8	.7	1.6	2.9
W	.9	.8	.0	.0	.0			1.7	6.4		3.3	1.0	.0	2.2
NW	3.1	1.6	.0	.0	.0			4.7	6.2		4.7	3.7	5.6	5.2
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	2.5							2.5	.0		2.2	2.0	.9	4.2
TOT OBS	416	318	100	2	2	638			10.0		138	204	107	189
TOT PCT	33.9	49.8	15.7	.3	.3			100.0			100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1884-1969AREA 0003 CUMBERLAND ISLANDS
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00403	2.2	15.2	44.2	34.8	3.6	.0	.0	.0	9.9	100.0	138
06409	2.0	5.4	53.9	34.3	3.9	.5	.0	.0	10.2	100.0	204
12415	.9	7.5	44.9	42.1	3.7	.9	.0	.0	10.7	100.0	107
18421	4.2	11.6	45.0	36.5	2.6	.0	.0	.0	9.4	100.0	189
TOT	16	62	304	232	22	2	.0	.0	10.0		638
PCT	2.5	9.7	47.6	36.4	3.4	.3	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	2.5	.0	.0	.0		.2
NE	2.5	3.4	2.5	.2		3.6
E	10.4	3.8	7.7	3.1		3.8
SE	12.6	12.9	15.5	5.6		4.3
S	6.7	.0	2.3	1.1		2.6
SW	.2	.0	.0	.2		4.5
W	.7	.7	.0	.0		2.0
NW	.4	.0	.0	.0		.5
VAR	.0	.0	.0	.0		.0
CALM	.7	3.6	.7	.0		3.5
TOT OBS	51	34	40	14	139	3.7
TOT PCT	36.7	24.5	28.8	10.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
							149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	2.5	.0	.0	.0		.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5
NE	2.5	3.4	2.5	.2		3.6	.0	.0	.0	.0	.2	1.1	.0	.0	.0	.0	.0	7.4
E	10.4	3.8	7.7	3.1		3.8	.0	.0	.0	.7	4.3	1.8	2.0	.0	.0	.0	.0	18.2
SE	12.6	12.9	15.5	5.6		4.3	.0	.0	.7	1.6	4.9	.7	2.3	1.4	.0	.0	.0	34.9
S	6.7	.0	2.3	1.1		2.6	.0	.0	.0	.5	.0	1.4	.0	.5	.0	.0	.0	7.6
SW	.2	.0	.0	.2		4.5	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
W	.7	.7	.0	.0		2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4
NW	.4	.0	.0	.0		.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7	3.6	.7	.0		3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0
TOT OBS	51	34	40	14	139	3.7	0	0	1	4	13	7	6	3	0	0	0	105
TOT PCT	36.7	24.5	28.8	10.1	100.0		.0	.0	.7	2.9	9.4	5.0	4.3	2.2	.0	.0	.0	75.5

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>4500	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.7	.7	2.1	2.1	2.1	2.1	2.1	2.1
>3500	4.3	5.0	6.4	6.4	6.4	6.4	6.4	6.4
>2000	9.2	9.9	11.3	11.3	11.3	11.3	11.3	11.3
>1000	18.4	19.1	20.6	20.6	20.6	20.6	20.6	20.6
>600	21.3	22.0	23.4	23.4	23.4	23.4	23.4	23.4
>300	22.0	22.7	24.1	24.1	24.1	24.1	24.1	24.1
>150	22.0	22.7	24.1	24.1	24.1	24.1	24.1	24.1
>0	22.0	22.7	24.1	24.1	24.1	24.1	24.1	24.1
TOTAL	31	32	34	34	34	34	34	34

TOTAL NUMBER OF OBS: 141

PCT FREQ NH <5/8: 75.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
9.2	20.3	19.0	20.9	7.2	8.5	4.6	3.9	6.5	.0	153

PERIOD: (PRIMARY) 1971-1969
(OVER-ALL) 1884-1969

APRIL

AREA 0003 CUMBERLAND ISLANDS
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.2	.7	.0	.0	.0	.0	.0	.0	.9	
	TOT %	.0	.0	.2	.7	.0	.0	.0	.0	.0	.0	.9	
5<10	PCP	.1	.7	.7	2.0	.1	.1	.0	.1	.0	.0	3.8	
	NO PCP	2.1	3.4	8.0	16.1	4.1	.7	.9	2.7	.0	.7	38.7	
	TOT %	2.2	4.1	8.7	18.1	4.2	.8	.9	2.8	.0	.7	42.4	
10+	PCP	.0	.0	.2	.6	.2	.0	.0	.0	.0	.0	.9	
	NO PCP	3.3	5.3	14.1	20.0	5.5	1.6	1.4	2.2	.0	1.8	55.1	
	TOT %	3.3	5.3	14.3	20.6	5.7	1.6	1.4	2.2	.0	1.8	56.0	
450													
TOT OBS													
TOT PCT		5.5	9.4	23.6	39.3	9.9	2.6	2.3	4.9	.0	2.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.4	.1	.1	.0	.0	.0	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.3	.5	.0	.0	.0	.0	.0	.0	.8	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.3	.7	.0	.0	.0	.0	.0	.0	1.0	
5<10	0-3	.7	1.1	.8	.7	.3	.1	.1	.4	.0	.6	4.6	
	4-10	1.0	1.6	3.8	5.9	1.9	.7	.5	1.1	.0	.0	16.4	
	11-21	.3	.7	2.9	9.1	1.1	.1	.2	1.0	.0	.0	15.2	
	22+	.0	.2	.1	1.1	.6	.0	.0	.0	.0	.0	1.9	
	TOT %	1.9	3.6	7.5	16.7	3.9	.9	.8	2.4	.0	.6	38.2	
10+	0-3	1.7	1.0	1.2	.9	.3	.4	.5	1.2	.0	1.9	9.1	
	4-10	1.5	4.0	8.7	9.4	3.2	.6	.7	.9	.0	.0	29.1	
	11-21	.0	.1	4.3	12.4	2.6	.4	.1	.1	.0	.0	20.0	
	22+	.0	.0	.2	.9	.8	.0	.0	.0	.0	.0	1.9	
	TOT %	3.2	5.1	14.4	23.6	6.5	1.4	1.3	2.2	.0	1.9	60.1	
519													
TOT OBS													
TOT PCT		5.2	8.7	22.6	41.0	10.4	2.5	2.1	4.6	.0	2.5	100.0	

APRIL

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1884-1969AREA 0003 CUMBERLAND ISLANDS
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	2.7	16.2	8.1	5.4	2.7	.0	.0	35.1	64.9	37
06009	.0	.0	2.0	2.0	6.1	4.1	.0	2.0	.0	.0	16.3	83.7	49
12015	.0	.0	.0	3.1	.0	3.1	6.3	3.1	.0	.0	15.6	84.4	32
18021	.0	.0	.0	3.0	12.1	3.0	6.1	.0	.0	.0	24.2	75.8	33
TOT	0	0	1	4	13	7	6	3	0	0	34	117	151
PCT	.0	.0	.7	2.6	8.6	4.6	4.0	2.0	.0	.0	22.5	77.5	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.9	.9	24.6	73.7	104
06009	.0	.0	.0	1.7	40.2	57.5	104
12015	.0	.0	1.1	.0	47.3	51.6	91
18021	.0	.7	.0	.7	43.0	55.6	151
TOT	0	1	3	5	206	315	530
PCT	.0	.2	.6	.9	38.9	59.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	5.6	30.6	63.9	36
06009	.0	2.2	6.7	11.1	82.2	45
12015	.0	.0	3.3	13.3	83.3	30
18021	.0	.0	3.3	23.3	73.3	30
TOT	0	1	7	27	107	141
PCT	.0	.7	5.0	19.1	75.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
40/94	.0	.0	.0	.3	.3	.0	.0	.0	2	.7
45/89	.0	.0	.0	.3	.3	.3	.7	.0	5	1.6
50/84	.0	.0	.7	1.6	9.4	9.9	7.2	1.6	25	30.6
55/79	.0	.0	.3	1.3	6.9	19.7	20.7	7.6	172	56.6
60/74	.0	.0	.0	.0	1.0	4.6	3.6	.7	30	9.9
65/69	.0	.0	.0	.0	.3	.0	.3	.0	2	.7
TOTAL	0	0	3	11	56	105	99	30	304	100.0
PCT	.0	.0	1.0	3.6	18.4	34.5	32.6	9.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.0	.0	.3	.0	.0	.0	.0	.0	.0
.0	.0	.7	.4	.2	.0	.2	.1	.0	.0
1.8	3.7	8.7	11.8	1.2	.1	1.2	.4	.0	1.6
3.2	3.7	14.7	23.6	4.6	.8	.9	3.5	.0	1.3
.3	.2	.3	4.2	3.1	.9	.3	.2	.0	.3
.0	.0	.0	.0	.3	.3	.0	.0	.0	.0
5.7	7.6	24.4	40.3	9.7	2.1	2.7	4.2	.0	3.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	91	90	86	79	74	72	71	79.7	134
06009	86	85	84	79	73	71	70	78.7	201
12015	82	81	81	77	74	71	71	76.7	107
18021	94	88	82	76	73	59	57	76.5	188
TOT	94	87	84	78	73	71	57	77.9	630

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.8	27.4	25.8	33.9	8.1	76	62		
06009	.0	7.7	26.0	35.6	22.1	8.7	75	104		
12015	.0	3.1	7.7	38.5	35.4	15.4	80	65		
18021	.0	1.2	8.6	37.0	42.0	11.1	80	81		
TOT	0	14	56	108	101	33	77	312		

APRIL

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1884-1969

TABLE 17

AREA 0003 CUMBERLAND ISLANDS
19.75 148.2FPCT FRFQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 74	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WD FOG
11/13	.0	.0	.3	.0	.0	.0	.3	2	.0	.6
7/8	.0	.0	.3	.0	.3	.3	.0	3	.0	.9
6	.0	.0	.0	.6	.0	.0	.0	2	.0	.6
5	.0	.0	.9	.9	.0	.0	.0	6	.0	1.9
4	.3	.0	.3	2.2	.0	.0	.0	9	.0	2.8
3	.0	.6	3.4	2.5	.0	.0	.0	21	.0	6.5
2	.0	.5	5.9	3.7	.0	.0	.0	33	.3	10.0
1	.0	1.6	6.2	3.4	.0	.0	.0	36	.3	10.9
0	.0	3.4	12.1	1.6	.0	.0	.0	55	.3	16.8
-1	.3	6.5	9.3	1.2	.0	.0	.0	56	.3	17.1
-2	.0	4.7	5.3	.9	.0	.0	.0	35	.0	10.9
-3	.6	5.0	3.1	.0	.0	.0	.0	28	.3	8.4
-4	.0	2.8	1.6	.0	.0	.0	.0	14	.3	4.0
-5	.3	.9	1.2	.0	.0	.0	.0	8	.0	2.5
-6	.3	1.2	.3	.0	.0	.0	.0	6	.0	1.9
-7/-8	.3	.9	.3	.0	.0	.0	.0	5	.0	1.6
-9/-10	.6	.0	.0	.0	.0	.0	.0	2	.0	.6
TOTAL	9		163		1		1	321	6	315
PCT	2.8	28.3	50.8	17.1	.3	.3	.3	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FRFQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	.0	.0	.0	.0	.0	.8	.3	2.7	.0	.0	.0	.0	3.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	3.5	.0	.0	.0	.0	3.5
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	.0	.0	.0	.0	.0	.8	.3	6.3	.5	.0	.0	.0	7.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	4.9	.0	.0	.0	.0	5.7	.0	3.3	.0	.0	.0	.0	3.3
1-2	.0	8.7	.0	.0	.0	.0	8.7	1.1	1.9	3.3	.0	.0	.0	6.3
3-4	1.1	3.3	4.6	.0	.0	.0	9.0	.0	4.6	15.8	.0	.0	.0	20.4
5-6	.0	1.1	2.7	.0	.0	.0	3.8	.0	.0	14.1	1.1	.0	.0	15.2
7	.0	.0	4.9	.0	.0	.0	4.9	.0	.0	2.4	.0	.0	.0	2.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.0	.0	.0	2.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.9	17.9	12.2	.0	.0	.0	32.1	1.1	9.8	37.8	1.1	.0	.0	49.7

PERIOD: (OVER-ALL) 1963-1969

APRIL

AREA 0003 CUMBERLAND ISLANDS
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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.8	.0	.0	.0	.0	.6	.0	.3	.0	.0	.0	.0	.3	
1-2	.0	3.3	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.8	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	1.6	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
TOT PCT	.0	4.9	1.6	.0	.0	.0	6.5	.0	.3	.0	.0	.0	.0	.3	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
1-2	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.1	.0	.0	.0	.0	1.1	.3	.0	.0	.0	.0	.0	.3	97.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	4.3	12.0	.0	.0	.0	.0	16.3	
1-2	1.1	18.5	3.3	.0	.0	.0	22.8	
3-4	1.1	8.7	20.7	.0	.0	.0	30.4	
5-6	.0	1.1	18.5	1.1	.0	.0	20.7	
7	.0	.0	7.6	.0	.0	.0	7.6	
8-9	.0	.0	2.2	.0	.0	.0	2.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.5	40.2	52.2	1.1	.0	.0	100.0	92

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	6.8	27.8	21.8	9.8	.8	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91
6-7	.0	3.8	4.5	4.5	5.3	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25
8-9	.0	.0	.0	.8	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
10-11	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
INDET	8.3	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12
TOTAL	20	42	36	20	7.5	2.3	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	133
PCT	15.0	31.6	27.1	15.0	7.5	2.3	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

MAY

PERIOD: (PRIMARY) 1971-1979
(OVERALL) 1881-1949AREA 0003 CUMBERLAND ISLANDS
19.85 148.46

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NE	4.3	4.3	.0	.0	.0	.0	.0	8.5	.0	.0	.0	.0	.0	.0	91.5
E	1.7	1.7	1.7	.0	.0	.0	.0	5.0	.0	.0	.0	.0	.0	.0	95.0
SE	.0	2.0	.3	.0	.0	.0	.0	2.3	1.9	.0	.0	.0	.0	.0	95.8
S	.0	1.0	1.0	.0	.0	.0	.0	2.1	1.5	.0	2.1	.0	.0	.0	94.4
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.5	1.6	.5	.0	.0	.0	.0	2.7	1.1	.0	.3	.0	.0	.0	96.0
TOT OBS:	376														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	1.1	.0	.0	.0	.0	.0	.0	1.1	2.2	.0	.0	.0	.0	.0	96.8
06004	.0	2.7	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	97.3
12015	1.2	3.7	.0	.0	.0	.0	.0	4.9	1.2	.0	.0	.0	.0	.0	93.8
18021	.0	.9	1.8	.0	.0	.0	.0	2.6	.9	.0	.9	.0	.0	.0	95.6
TOT PCT TOT OBS:	.5 399	1.8	.5	.0	.0	.0	.0	2.8	1.0	.0	.3	.0	.0	.0	96.0

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.3	1.8	.4	.0	.0	.0		3.5	5.3		.0	1.8	5.5	6.9	2.2	3.8	3.5	2.1
NE	1.2	3.6	.5	.0	.1	.0		5.4	6.4		8.1	1.8	10.2	6.9	3.7	5.8	6.6	.0
E	1.7	8.1	5.8	.2	.2	.0		16.0	9.8		9.9	11.9	14.1	20.6	34.6	19.2	13.3	14.3
SE	2.9	19.4	21.5	7.1	.0	.0		46.0	11.5		50.0	40.5	47.9	48.4	45.6	46.2	45.4	45.6
S	1.8	7.8	5.0	.1	.0	.0		14.7	8.9		22.7	23.8	7.8	8.4	2.2	8.3	18.8	20.1
SW	1.2	3.6	.8	.0	.0	.0		5.6	7.1		4.7	8.3	4.2	1.9	5.9	3.8	4.4	10.7
W	.6	1.4	.0	.0	.0	.0		2.0	4.0		2.3	4.8	2.6	.6	.0	1.3	1.3	2.1
NW	1.5	1.4	.2	.0	.0	.0		3.0	4.3		2.3	4.8	3.6	3.8	.0	2.6	3.1	2.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.8							3.8	.0		.0	2.4	4.2	2.5	5.9	9.0	3.5	3.1
TOT OBS	100	294	213	15	2	0	624		9.3		43	84	96	80	34	78	119	96
TOT PCT	16.0	47.1	34.1	2.4	.3	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	06	12	18	21
N	4.9	.5	.2	.0	.0			3.5	5.3		1.2	6.1	3.3	2.9	
NE	3.8	1.5	.2	.1	.0			5.4	6.4		9.9	8.7	5.1	3.6	
E	5.6	8.3	1.8	.2	.0			16.0	9.8		11.2	17.0	23.9	13.8	
SE	10.3	25.7	9.5	.5	.0			46.0	11.5		43.7	48.2	46.0	45.5	
S	8.1	7.2	1.4	.0	.0			14.7	8.9		23.4	8.1	6.5	19.4	
SW	2.6	2.5	.2	.0	.0			5.6	7.1		7.1	3.1	4.5	7.3	
W	2.0	.0	.0	.0	.0			2.0	4.0		3.9	1.7	.9	1.7	
NW	4.7	.2	.2	.0	.0			3.0	4.3		3.9	3.7	1.8	2.6	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	3.8							3.8	.0		1.6	3.4	8.0	3.3	
TOT OBS	251	284	84	5	0	624			9.3		127	176	112	209	
TOT PCT	40.2	45.5	13.5	.8	.0			100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1921-1949
(OVER-ALL) 1881-1969

MAY

AREA 0003 CUMBERLAND ISLANDS
19.85 148.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.6	11.0	44.9	39.4	1.6	1.6	.0	10.1	100.0	127
0600	2.4	10.8	47.2	34.1	4.5	.0	.0	9.8	100.0	176
1200	8.0	11.6	42.0	35.7	2.7	.0	.0	9.3	100.0	112
1800	3.3	14.4	51.2	30.1	1.0	.0	.0	8.4	100.0	209
TOT	24	76	294	213	15	2	0	9.3		624
PCT	3.8	12.2	47.1	34.1	2.4	.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	.8	1.4	.0		2.7
NE	3.8	.0	2.6	.0		3.0
E	3.2	2.0	5.2	1.6		4.4
SE	12.0	14.6	21.6	3.2		4.3
S	5.8	4.0	1.2	.0		2.2
SW	2.6	1.8	.8	.0		2.8
W	2.0	.0	.0	.0		.8
NW	4.4	.0	.0	.0		.5
VAR	.0	.0	.0	.0		.0
CALM	3.2	.8	.0	.0		.6
TOT OBS	48	30	41	6	125	3.5
TOT PCT	38.4	24.0	32.8	4.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	3.0	
NE	.0	.0	.0	.0	.8	.0	.2	.0	.0	.0	5.4	
E	.0	.0	.0	.8	.8	.6	.0	.0	.0	.0	9.8	
SE	.8	.0	.8	.8	4.2	2.6	.0	.0	.0	1.6	40.6	
S	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	10.4	
SW	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	4.4	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	
TOT OBS	1	0	1	2	9	4	1	0	0	2	105	125
TOT PCT	.8	.0	.8	1.6	7.2	3.2	.8	.0	.0	1.6	84.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				VSBY (NM)			
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >5000	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >3500	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
= OR >2000	4.7	4.7	5.4	5.4	5.4	5.4	5.4	5.4
= OR >1000	7.8	10.9	12.4	12.4	12.4	12.4	12.4	12.4
= OR >600	9.3	12.4	14.0	14.0	14.0	14.0	14.0	14.0
= OR >300	10.1	13.2	14.7	14.7	14.7	14.7	14.7	14.7
= OR >150	10.1	13.2	14.7	14.7	14.7	14.7	14.7	14.7
= OR >0	10.9	14.0	15.5	15.5	15.5	15.5	15.5	15.5
TOTAL	14	18	20	20	20	20	20	20

TOTAL NUMBER OF OBS: 129

PCT FREQ NH <5/8: 84.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	17.6	14.8	20.4	14.8	13.4	6.3	3.5	5.6	3.5	142

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1881-1969

MAY

AREA 0003 CUMBERLAND ISLANDS
19.0S 148.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	.3
	TOT %	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	.3
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.6	.2	.0	.0	.0	.0	.0	.8	.8
	TOT %	.0	.0	.0	.6	.2	.0	.0	.0	.0	.0	.8	.8
5<10	PCP	.0	.3	.8	.8	.3	.0	.0	.0	.0	.0	2.1	2.1
	NO PCP	3.1	2.8	7.9	20.7	6.4	3.6	1.3	1.5	.0	1.3	48.7	48.7
	TOT %	3.1	3.1	8.7	21.5	6.7	3.6	1.3	1.5	.0	1.3	50.8	50.8
10+	PCP	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.5	.5
	NO PCP	1.9	2.9	7.2	23.3	5.8	1.9	.7	2.7	.0	1.3	47.6	47.6
	TOT %	1.9	3.2	7.2	23.5	5.8	1.9	.7	2.7	.0	1.3	48.1	48.1
TOT OBS													376
TOT PCT		4.9	6.3	15.9	45.7	13.0	5.5	2.0	4.1	.0	2.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.2
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.2	.1	.1	.0	.0	.0	.0	.4	.4
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.6	.1	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.6	.1	.0	.0	.0	.0	.0	.2	.2
5<10	0-3	1.0	.4	.9	1.9	1.0	.8	.0	.8	.0	1.2	7.9	7.9
	4-10	1.2	1.6	4.2	7.9	2.9	1.8	1.0	.3	.0	.0	20.8	20.8
	11-21	.1	.3	2.2	8.2	2.7	.2	.0	.2	.0	.0	13.9	13.9
	22+	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	1.0	1.0
	TOT %	2.3	2.3	7.3	18.9	6.6	2.8	1.0	1.3	.0	1.2	43.6	43.6
10+	0-3	.6	.8	1.1	1.1	.5	.6	.3	1.0	.0	2.6	8.7	8.7
	4-10	.8	2.2	4.1	9.2	3.9	1.4	.5	1.3	.0	.0	23.4	23.4
	11-21	.4	.1	3.9	14.8	2.1	.4	.0	.0	.0	.0	21.6	21.6
	22+	.0	.1	.3	.6	.1	.0	.0	.0	.0	.0	1.2	1.2
	TOT %	1.9	3.3	9.3	25.6	6.7	2.4	.8	2.3	.0	2.6	54.9	54.9
TOT OBS													505
TOT PCT		4.2	5.5	16.6	45.4	13.9	5.3	1.8	3.6	.0	3.8	100.0	

MAY

PERIOD: (PRIMARY) 1921-1969
(O:ER-ALL) 1881-1969AREA 0003 CUMBERLAND ISLANDS
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	0/0 149	1/0 299	3/0 599	6/0 999	10/0 1999	20/0 3499	35/0 4999	50/0 6499	65/0 7999	80/0+ 8000+	TOTAL DBS	NH <5/8 ANY HGT	TOTAL DBS
00003	2.2	.0	2.2	.0	6.5	6.5	.0	.0	.0	2.2	19.6	80.4	46
06009	.0	.0	.0	.0	3.2	3.2	.0	.0	.0	.0	6.3	93.5	31
12015	.0	.0	.0	2.9	5.9	.0	2.9	.0	.0	.0	11.8	88.2	34
18021	.0	.0	.0	4.2	12.5	.0	.0	.0	.0	4.2	20.8	79.2	24
TOT	1	0	1	2	9	4	1	0	0	2	20	115	135
PCT	.7	.0	.7	1.5	6.7	3.0	.7	.0	.0	1.5	14.8	85.2	100.0

TABLE 11

PERCENT FREQUENCY VS8Y (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	.0	.0	.9	.0	36.8	62.3	114
06009	.0	.0	.0	2.1	47.6	50.3	143
12015	.0	.0	.0	1.0	43.0	56.0	100
18021	.6	.6	.6	.0	49.1	49.1	171
TOT	1	1	2	4	237	283	528
PCT	.2	.2	.4	.8	44.9	53.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS8Y (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL DBS
00003	2.3	4.5	4.5	15.9	79.5	44
06009	.0	.0	3.3	3.3	93.3	30
12015	.0	.0	6.3	6.3	87.5	32
18021	.0	.0	4.3	17.4	78.3	23
TOT	1	2	6	14	109	129
PCT	.8	1.6	4.7	10.9	84.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	.3	.0	.0	1	.3
80/84	.0	.0	.3	.3	1.3	3.8	.0	.0	18	5.7
75/79	.0	.3	1.3	3.2	5.1	13.4	8.3	4.5	113	36.0
70/74	.0	.0	1.0	2.5	7.0	11.8	14.3	13.1	186	49.7
65/69	.0	.0	.3	2.5	1.9	1.9	.6	1.0	26	8.3
TOTAL	0	1	9	27	48	98	73	58	314	100.0
PCT	.0	.3	2.9	8.6	15.3	31.2	23.2	18.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0
80/84	1.0	.0	1.0	2.2	.5	.2	.2	.8	.0	.0
75/79	2.1	4.1	8.0	13.4	2.9	1.8	.5	1.9	.0	1.3
70/74	2.3	1.7	5.4	26.6	6.6	2.3	1.3	1.6	.0	1.9
65/69	.0	.0	.0	3.4	4.4	.5	.0	.0	.0	.0
TOTAL	5.4	5.7	14.4	45.6	14.7	4.7	1.9	4.3	.0	3.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	85	83	81	75	69	66	65	74.7	128
06009	86	82	80	75	70	67	67	75.0	179
12015	80	79	77	74	68	67	67	73.3	119
18021	82	79	77	73	66	64	64	72.6	218
TOT	86	82	79	74	67	65	64	73.8	644

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	18.9	14.9	33.8	20.3	12.2	74	74
06009	.0	17.0	12.5	35.2	20.5	14.8	74	88
12015	.0	2.9	17.6	32.4	25.0	22.1	79	68
18021	.0	9.9	16.8	24.8	25.7	22.8	78	101
TOT	0	41	51	103	76	60	76	331

PERIOD: (PRIMARY) 1921-1949
(OVER-ALL) 1881-1969

MAY

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TABLE 17

PCT FRFQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.3	1	.0	.3
4/10	.0	.0	.0	.0	.3	.0	1	.0	.3
7/8	.0	.0	.3	.0	.3	.0	2	.0	.6
6	.0	.0	.0	.0	.3	.0	1	.0	.3
5	.0	.0	.0	.3	.3	.0	2	.0	.6
4	.0	.3	.6	1.2	1.2	.0	11	.0	3.2
3	.0	.3	1.5	1.8	.3	.0	13	.0	3.8
2	.0	.3	3.8	1.5	.9	.3	23	.0	6.7
1	.3	.9	5.6	2.6	.9	.0	35	.0	10.2
0	.0	2.3	10.8	5.0	.0	.0	62	.0	18.1
-1	.0	2.0	12.6	2.9	.0	.0	60	.0	17.5
-2	.0	2.9	7.0	1.5	.0	.0	39	.0	11.4
-3	.6	4.4	5.6	.6	.0	.0	38	.0	11.1
-4	.0	3.8	2.0	.3	.0	.0	21	.3	5.8
-5	.3	4.1	1.5	.0	.0	.0	20	.0	5.8
-6	1.5	.3	.3	.0	.0	.0	7	.0	2.0
-7/-8	1.2	.6	.0	.0	.0	.0	6	.0	1.8
TOTAL	13	76	176	60	2	2	342	1	341
PCT	3.8	22.2	51.5	17.5	4.4	.6	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FRFQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.0	1.2	.0	.0	.0	2.2	.3	.0	.0	.0	.0	.0	.3
1-2	.0	.0	.0	.0	.0	.0	.0	2.5	3.7	.0	.0	.0	.0	6.2
3-4	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	.0	2.5	.0	.0	.0	3.4	2.8	3.7	.0	.0	.6	.0	7.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	.9	.0	.0	.0	.0	2.2	1.2	.3	.0	.0	.0	.0	1.5
1-2	1.2	5.2	3.1	.0	.0	.0	9.6	.0	8.3	8.3	.0	.0	.0	16.7
3-4	.0	.0	6.2	.0	.0	.0	6.2	.0	4.4	16.7	.3	.0	.0	21.9
5-6	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	8.6	.0	.0	.0	8.6
7	.0	.0	.0	.0	.9	.0	.9	.0	.0	1.2	.0	.0	.0	1.2
8-9	.0	.0	.0	.0	.9	.0	.9	.0	.0	1.2	.0	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	1.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.5	6.2	10.5	.0	1.9	.6	21.0	1.2	13.6	36.1	1.5	.0	.0	52.5

PERIOD: (OVER-ALL) 1943-1969

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.5	.9	.0	.0	.0	3.4	.0	1.2	1.2	.0	.0	.0	2.5	.0
3-4	.0	.0	5.6	.9	.0	.0	6.5	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.5	7.7	.9	.0	.0	11.1	.0	1.2	1.2	.0	.0	.0	2.5	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.2	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.2	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.8	1.2	1.2	.0	.0	.0	7.2	.0
1-2	4.8	21.7	13.3	.0	.0	.0	39.8	.0
3-4	1.2	4.8	28.9	1.2	.0	.0	36.1	.0
5-6	.0	.0	10.8	.0	.0	.0	10.8	.0
7	.0	.0	1.2	.0	1.2	.0	2.4	.0
8-9	.0	.0	1.2	.0	1.2	.0	2.4	.0
10-11	.0	.0	.0	1.2	.0	.0	1.2	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	10.8	27.7	56.6	2.4	2.4	.0	100.0	83

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	4.9	30.1	25.2	8.1	.8	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	87	3
6-7	.8	.0	4.1	7.3	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	5
8-9	.0	.0	.0	2.4	2.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
10-11	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
12-13	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	0
INDET	3.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123	3
TOTAL	11	38	37	22	11	3	1	0	0	0	0	0	0	0	0	0	0	0	0	100.0	
PCT	8.9	30.9	30.1	17.9	8.9	2.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1881-1969

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WQ PCPN	FGG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	.0	4.3	.0	.0	.0	.0	.0	4.3	.0	.0	.0	.0	.0	.0	95.7
NE	.0	9.1	.0	.0	.0	.0	.0	9.1	.0	.0	.0	.0	.0	.0	90.9
E	2.5	.0	.0	.0	.0	.0	.0	2.5	3.3	.0	.0	.0	.0	.0	94.1
SE	4.5	2.0	.8	.0	.0	.0	.0	7.2	1.3	.0	1.2	.0	.8	.0	89.5
S	1.4	.6	1.9	.0	.0	.0	.0	4.0	.5	.0	.6	.0	.6	.0	94.2
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	.0	96.9
W	.0	.0	.0	.0	.0	.0	.0	12.1	.0	.0	.0	.0	.0	.0	100.0
NW	.0	12.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	87.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	92.4
TOT PCT	2.7	1.6	.9	.0	.0	.0	.0	5.2	1.1	.0	.7	.0	.7	.0	
TOT OBS:	563														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WQ PCPN	FGG WQ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	3.0	3.0	1.5	.0	.0	.0	.0	7.4	1.5	.0	.7	.0	.7	.0	89.6
06009	2.2	1.1	.0	.0	.0	.0	.0	3.2	1.1	.0	.5	.0	.0	.0	95.1
12015	2.9	1.9	1.0	.0	.0	.0	.0	6.8	.0	.0	1.0	.0	1.9	.0	90.3
18021	1.8	.6	1.2	.0	.0	.0	.0	3.7	1.2	.0	.6	.0	.6	.0	93.9
TOT PCT	2.6	1.5	.9	.0	.0	.0	.0	4.4	1.0	.0	.7	.0	.7	.0	92.7
TOT OBS:	587														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND SPEED (KNOTS)													HOUR (GMT)					
WIND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21	
N	1.4	.5	.1	.0	.0	.0	.0	2.0	3.0	.0	.8	3.6	4.4	.0	2.7	.8	1.3	
NE	.7	3.3	.2	.0	.0	.0	.0	4.2	6.2	2.0	2.3	3.0	7.9	.6	7.0	5.7	2.2	
E	2.1	5.6	2.7	.3	.0	.0	.0	10.8	8.5	5.6	7.4	11.6	17.5	19.2	12.4	11.4	4.7	
SE	3.5	20.2	20.2	1.9	.0	.0	.0	45.9	10.9	54.6	48.6	34.9	44.7	46.8	43.5	38.1	40.5	
S	4.7	10.4	9.6	.5	.0	.0	.0	25.2	9.8	28.6	27.1	19.1	15.4	25.0	18.3	30.3	37.9	
SW	1.0	3.6	1.2	.0	.0	.0	.0	5.8	8.0	5.1	6.0	4.4	3.1	5.8	8.1	8.1	5.5	
W	1.0	1.0	.1	.0	.0	.0	.0	2.1	4.7	2.0	2.7	1.3	1.8	2.6	1.6	1.3	3.9	
NW	.9	.6	.1	.0	.0	.0	.0	1.6	4.8	2.0	1.2	1.5	1.8	.0	2.2	.8	3.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.4							2.4	.0	.0	3.9	.8	3.5	.0	4.3	3.4	.9	
TOT OBS	138	351	266	21	0	0	776			49	129	118	114	39	93	118	114	
TOT PCT	17.8	45.2	34.3	2.7	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

		WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
WIND DIR	0-6	7-16	17-27	28-40	41+	00 03				06 09	12 15	18 21		
N	1.9	.1	.0	.0	.0		2.0	3.0	.6	4.0	1.9	1.1		
NE	2.7	1.4	.1	.0	.0		4.2	6.2	2.2	5.4	5.1	4.0		
E	4.5	5.3	1.0	.0	.0		10.8	8.5	6.9	14.4	14.4	8.1		
SE	9.2	29.6	6.9	.2	.0		45.9	10.9	50.3	49.9	44.5	39.3		
S	8.2	13.2	3.6	.2	.0		25.2	9.8	27.5	17.2	20.3	34.1		
SW	2.2	3.4	.2	.0	.0		5.8	8.0	5.8	3.8	7.4	6.8		
W	1.6	.5	.0	.0	.0		2.1	4.7	2.5	1.5	1.9	2.6		
NW	1.2	.5	.0	.0	.0		1.6	4.8	1.4	1.6	1.5	1.9		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	2.4						2.4	.0	2.8	2.2	3.0	2.1		
TOT OBS	263	418	92	3	0	776		9.4	178	232	132	234		
TOT PCT	33.9	53.9	11.9	.4	.0		100.0		100.0	100.0	100.0	100.0		

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOOR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	2.8	14.0	43.3	37.1	2.8	.0	.0	9.8	100.0	178
06009	2.2	20.7	43.1	30.2	3.9	.0	.0	9.0	100.0	232
12015	3.0	9.1	50.8	36.4	.8	.0	.0	9.6	100.0	132
18021	2.1	14.5	45.7	35.0	2.6	.0	.0	9.3	100.0	234
TOT	19	119	351	266	21	0	0	9.4		776
PCT	2.4	15.3	45.2	34.3	2.7	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	1.1	.0	.0	.0		.5
NE	.2	.2	1.3	.0		3.7
E	3.6	3.3	2.4	1.0		4.0
SE	18.7	9.7	14.0	9.3		4.1
S	14.6	3.6	5.5	3.3		2.9
SW	3.8	.2	.8	.0		1.4
W	1.3	.0	.0	.0		.0
NW	.2	.0	.6	.0		5.6
VAR	.0	.0	.0	.0		.0
CALM	.6	.0	.0	.0		.0
TOT OBS	70	27	39	23	159	3.5
TOT PCT	44.0	17.0	24.5	14.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT/NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.9	
.0	.0	.0	1.3	1.1	.0	.0	.0	.0	.0	.6	8.2
.6	.6	.6	3.8	5.2	2.0	1.6	1.3	.0	.0	.6	36.0
.6	.0	.6	.6	.6	1.1	.9	.0	.0	.0	.6	21.9
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.2
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6
2	1	2	10	12	6	4	2	0	2	118	159
1.3	.6	1.3	6.3	7.5	3.8	2.5	1.3	.0	1.3	74.2	100.0

TABLE 7

CUMULATIVE PCT FREQ (IF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM))

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >30YD	= OR >0
= OR >6500	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
= OR >5000	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
= OR >3500	4.9	5.6	5.6	5.6	5.6	5.6	5.6	5.6
= OR >2000	8.0	9.3	9.3	9.3	9.3	9.3	9.3	9.3
= OR >1000	15.4	17.3	17.3	17.3	17.3	17.3	17.3	17.3
= OR >800	19.8	23.5	23.5	23.5	23.5	23.5	23.5	23.5
= OR >300	20.4	24.1	24.7	24.7	24.7	24.7	24.7	24.7
= OR >150	20.4	24.1	24.7	24.7	24.7	25.3	25.3	25.3
= OR >0	21.0	25.3	25.9	25.9	25.9	26.5	26.5	26.5
TOTAL	34	41	42	42	42	43	43	43

TOTAL NUMBER OF OBS: 162

PCT FREQ NH <5/8: 73.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBS	TOTAL OBS
20.5	21.1	12.7	12.7	6.0	6.6	4.2	7.8	8.4	166

PERIOD: (PRIMARY) 1921-1949
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.4	
1/2<1	PCP	.0	.0	.0	.4	.1	.0	.3	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.6	.1	.0	.3	.0	.0	.0	.7	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.4	
2<5	PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.0	.0	.2	.4	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.0	.0	.2	.5	.0	.0	.0	.0	.0	.7	
5<10	PCP	.1	.3	.1	2.3	.7	.0	.0	.0	.0	.0	3.4	
	NO PCP	.8	1.2	5.8	20.6	13.5	2.5	1.2	.9	.0	1.6	48.1	
	TOT %	.9	1.5	5.9	22.9	14.2	2.5	1.2	.9	.0	1.6	51.5	
10+	PCP	.0	.0	.2	.4	.2	.0	.0	.2	.0	.0	.9	
	NO PCP	1.2	1.4	4.6	20.3	12.5	3.2	1.5	.4	.0	.4	45.5	
	TOT %	1.2	1.4	4.8	20.7	12.7	3.2	1.5	.6	.0	.4	46.4	
TOT OBS													563
TOT PCT		2.1	2.9	10.6	44.8	27.7	5.8	2.7	1.5	.0	2.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.5	.1	.0	.0	.0	.0	.0	.6	
1<2	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.2	.2	.0	.2	.0	.0	.0	.0	.6	
	11-21	.0	.0	.0	.4	.1	.2	.0	.0	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.2	.6	.1	.3	.0	.0	.0	.0	1.4	
2<5	0-3	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.3	
	4-10	.0	.2	.0	.2	.3	.0	.0	.0	.0	.0	.6	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.0	.3	.6	.0	.0	.0	.0	.0	1.1	
5<10	0-3	.7	.4	1.5	2.3	2.3	.4	.5	.2	.0	1.5	9.7	
	4-10	.0	.8	2.4	9.7	5.5	1.4	.5	.5	.0	.0	20.8	
	11-21	.1	.2	1.2	8.0	5.7	.6	.1	.2	.0	.0	15.6	
	22+	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0	.5	
	TOT %	.8	1.4	5.1	20.3	13.2	2.4	1.0	.8	.0	1.5	46.5	
10+	0-3	.9	.4	.8	1.2	2.5	.8	.6	.6	.0	.5	8.3	
	4-10	.6	1.5	2.9	8.1	4.9	2.0	.7	.2	.0	.0	20.8	
	11-21	.0	.0	1.7	12.4	4.6	.5	.0	.0	.0	.0	19.2	
	22+	.0	.0	.2	1.2	.4	.0	.0	.0	.0	.0	1.8	
	TOT %	1.5	1.9	5.6	23.0	12.5	3.2	1.3	.8	.0	.5	50.2	
TOT OBS													662
TOT PCT		2.3	3.5	10.9	44.9	26.7	5.9	2.3	1.5	.0	2.0	100.0	

JUNE

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	4.1	.0	.0	6.1	8.2	2.0	.0	2.0	.0	.0	22.4	77.6	49
06009	.0	.0	2.3	9.3	11.6	4.7	2.3	2.3	.0	.0	32.6	67.4	43
12015	.0	2.6	.0	5.1	2.6	2.6	5.1	.0	.0	2.6	20.5	79.5	39
18021	.0	.0	3.0	3.0	9.1	6.1	3.0	.0	.0	6.1	30.3	69.7	33
TOT	2	1	2	10	13	6	4	2	0	3	43	121	164
PCT	1.2	.6	1.2	6.1	7.9	3.7	2.4	1.2	.0	1.8	26.2	73.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.7	.7	.0	34.6	64.1	103
06009	.0	.5	1.0	1.5	57.4	39.7	204
12015	1.7	.9	2.6	.9	44.0	50.0	116
18021	.0	.5	1.4	1.4	49.3	47.4	213
TOT	2	4	9	7	326	338	666
PCT	.3	.6	1.3	1.0	47.5	49.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	4.2	4.2	10.4	12.5	77.1	48
06009	.0	2.3	11.6	20.9	67.4	43
12015	.0	2.6	7.7	12.8	79.5	39
18021	.0	3.1	6.3	25.0	68.8	32
TOT	2	5	15	28	119	162
PCT	1.2	3.1	9.3	17.3	73.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
65/89	.0	.2	.0	.0	.0	.0	.0	.0	1	.2
60/84	.0	.0	.0	.2	.7	.2	.2	.0	6	1.5
75/79	.0	.0	.2	2.0	1.7	3.5	1.7	1.7	44	10.9
70/74	.0	.2	2.5	3.2	7.9	12.6	10.1	8.4	182	45.0
65/69	.0	.0	2.7	3.7	7.4	8.4	10.6	5.0	153	37.9
60/64	.0	.0	.0	.5	2.0	.5	.5	.7	17	4.2
55/59	.0	.0	.0	.0	.2	.0	.0	.0	3	.2
TOTAL	0	2	22	39	81	102	94	64	404	100.0
PCT	.0	.5	5.4	9.7	20.0	25.2	23.3	15.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
65/89	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
60/84	.0	.0	.2	.2	.5	.0	.0	.0	.0	.5
75/79	.5	.6	2.5	4.3	1.4	.6	.2	.2	.0	.5
70/74	1.1	.9	7.2	21.0	10.4	1.9	1.0	.9	.0	.7
65/69	.4	.5	.7	15.7	13.6	4.1	1.5	.8	.0	.5
60/64	.0	.0	.0	.8	2.8	.6	.0	.0	.0	.0
55/59	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0
TOTAL	2.0	2.0	10.6	42.1	29.1	7.2	2.7	1.9	.0	2.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	85	82	78	71	66	61	61	71.4	173
06009	81	79	77	72	67	65	63	71.8	240
12015	78	77	75	70	65	62	61	70.0	135
18021	77	76	74	69	62	60	59	68.7	238
TOT	85	79	76	70	65	61	59	70.4	786

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	18.3	13.5	25.0	27.9	15.4	75	104
06009	.0	14.2	23.9	26.9	17.9	17.2	74	134
12015	.0	21.5	16.9	27.7	23.1	10.8	71	65
18021	.0	11.8	22.7	21.8	26.9	16.8	75	119
TOT	0	66	84	106	100	66	74	422

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PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1921-1969AREA 0003 CUMBERLAND ISLANDS
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TABLE 17

PCT FRQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FDG	WD FDG
7/8	.0	.0	.0	.0	.0	1.0	.2	5	.0	1.2
6	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
5	.0	.0	.2	.2	.7	.2	.0	6	.0	1.4
4	.0	.0	.0	.2	.7	.2	.2	6	.0	1.4
3	.0	.0	.2	.7	3.1	.2	.0	18	.0	4.3
2	.0	.0	.2	2.9	3.9	.2	.0	30	.5	6.8
1	.0	.0	.7	4.6	5.1	.0	.0	43	.0	10.4
0	.0	.0	1.0	6.3	3.9	.0	.0	46	.2	10.9
-1	.0	.0	1.0	10.1	3.1	.2	.0	67	.0	14.5
-2	.0	.0	4.8	8.0	1.2	.0	.0	58	.0	14.0
-3	.0	.0	3.9	7.0	1.0	.0	.0	49	.0	11.8
-4	.0	.2	3.6	4.3	.5	.0	.0	36	.2	8.5
-5	.0	.7	3.6	1.0	.0	.0	.0	22	.0	5.3
-6	.0	.2	4.1	.5	.0	.0	.0	20	.0	4.8
-7/-8	.0	1.0	.7	.2	.0	.0	.0	8	.0	1.9
-9/-10	.4	.2	.0	.2	.0	.0	.0	4	.0	.9
-11/-13	.2	.2	.0	.0	.0	.0	.0	2	.0	.5
TOTAL	3		100		96		2	414	4	410
PCT	.7	11	192	10			.5	100.0	1.0	99.0
	2.7	24.2	46.4	23.2	2.4					

PERIOD: (OVER-ALL) 1953-1969

TABLE 18

PCT FRQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	1.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.7	.0	.0	.0	.0	.7	.0	1.2	.2	.0	.0	.0	1.5
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	.7	.0	.0	.0	.0	1.7	.0	1.2	.2	.0	.0	.0	1.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	1.0	.0	.0	.0	.0	.0	1.0	.0	2.2	.0	.0	.0	.0	2.2
1-2	.0	2.7	1.5	.0	.0	.0	4.2	.2	5.9	5.1	.0	.0	.0	11.3
3-4	.0	.0	2.9	.0	.0	.0	2.9	.0	3.9	14.2	2.0	.0	.0	20.1
5-6	.0	.0	2.7	1.0	.0	.0	3.7	.0	1.0	10.5	3.2	.0	.0	14.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	1.0	.0	.0	4.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	1.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	2.7	7.1	1.0	.0	.0	11.8	.2	13.0	33.3	8.1	.0	.0	54.7

PERIOD: (OVER-ALL) 1963-1969

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	2.0	2.7	.0	.0	.0	.0	5.6	.0	1.0	.0	.0	.0	.0	1.0
1-2	1.7	3.4	.7	.0	.0	.0	5.9	.0	1.5	.2	.0	.0	.0	1.7
3-4	.0	1.0	6.1	1.0	.0	.0	8.1	.0	.0	1.2	.0	.0	.0	1.2
5-6	.0	.0	1.5	1.7	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.7	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.7	8.1	10.8	2.7	.0	.0	25.2	.0	2.5	1.5	.0	.0	.0	3.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	1.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.2	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	4.9	7.8	.0	.0	.0	.0	12.6	
1-2	1.9	15.3	7.8	.0	.0	.0	25.2	
3-4	.0	4.9	24.3	2.9	.0	.0	32.0	
5-6	.0	1.0	14.6	5.8	.0	.0	21.4	
7	.0	.0	4.9	1.0	.0	.0	5.8	
8-9	.0	.0	1.0	.0	.0	.0	1.0	
10-11	.0	.0	.0	1.0	.0	.0	1.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.0	.0	.0	1.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.8	29.1	52.4	11.7	.0	.0	100.0	103

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	10.0	22.9	22.1	3.6	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	3	
6-7	.0	2.1	9.3	5.0	5.0	1.4	1.4	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	36	5	
8-9	.0	.0	.0	1.4	.7	.7	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
10-11	.0	.0	.0	.7	.7	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	4
INDET	1.4	.0	.7	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
TOTAL	16	35	45	16	17	4	4	1	2	0	0	0	0	0	0	0	0	0	0	140	3	
PCT	11.4	25.0	32.1	11.4	12.1	2.9	2.9	.7	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	4	

JULY

PERIOD: (PRIMARY) 1927-1949
(OVER-ALL) 1865-1969AREA 0003 CUMBERLAND ISLANDS
19.75 148.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE															OTHER WEATHER PHENOMENA				
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA				
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.2	.0	.0	.0	91.8				
NE	3.4	3.4	.0	.0	.0	.0	.0	6.8	.0	3.4	.0	.0	.0	.0	93.2				
E	1.5	.0	1.5	.0	.0	.0	.0	2.9	.0	.0	1.5	.0	2.9	.0	92.7				
SE	.0	.0	.0	.0	.0	.0	.0	1.1	.7	.0	.5	.0	.0	.0	97.7				
S	1.4	.0	.0	.0	.0	.0	.0	1.4	1.7	.0	1.2	1.2	1.2	.0	93.4				
SW	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	99.2				
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19.1	.0	.0	.0	94.9				
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.9	.0	.0	.0	.0	94.1				
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	.0	.0	.0	91.7				
TOT PCT	.8	.6	.2	.0	.0	.0	.0	1.6	.6	.4	1.4	.2	.6	.0	95.3				
TOT OBS:	487																		

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000Z	.0	1.9	.0	.0	.0	.0	.0	1.9	.0	.0	.9	.0	.9	.0	96.3
0600Z	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.7	.7	.7	.0	97.4
1201Z	2.3	1.2	.0	.0	.0	.0	.0	3.5	1.2	1.2	1.2	.0	.0	.0	93.0
1802Z	1.2	.0	.6	.0	.0	.0	.0	1.9	.6	.6	2.5	.0	.6	.0	94.4
TOT PCT TOT OBS:	.8 507	.6	.2	.0	.0	.0	.0	1.6	.6	.4	1.4	.2	.6	.0	95.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	1.9	.2	.0	.0	.0		2.4	6.0		2.5	.8	.9	6.0	2.5	3.8	3.1	1.1
NE	2.0	2.8	.1	.0	.0	.0		4.9	4.8		.0	5.0	1.7	16.3	.8	6.0	3.9	2.7
E	2.5	8.5	3.1	.0	.0	.0		14.0	7.6		5.0	8.0	14.1	19.0	22.5	22.8	13.6	11.1
SE	2.9	22.1	17.7	1.4	.1	.0		44.2	10.5		50.6	51.1	50.0	36.8	39.2	29.9	44.4	47.0
S	1.7	11.6	5.4	.5	.0	.0		19.2	9.1		28.8	22.5	17.1	11.8	18.3	22.3	16.1	21.1
SW	1.5	3.7	1.6	.3	.0	.0		7.1	8.1		8.1	7.1	6.6	3.3	6.7	4.3	8.5	10.4
W	.8	1.1	.5	.3	.0	.0		2.6	6.3		2.5	2.1	2.8	2.7	.0	2.2	4.7	1.9
NW	.6	2.0	.3	.0	.0	.0		2.9	6.6		.0	1.7	6.0	2.7	3.3	5.4	1.2	2.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7							2.7	.0		2.7	1.7	.9	1.1	6.7	3.3	4.7	3.0
TOT OBS	112	404	219	18	1	0		753		8.8	40	119	117	91	30	92	129	135
TOT PCT	14.9	53.7	29.0	2.4	.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	09	18
N	1.8	.7	.0	.0	.0			2.4	6.0		1.3	3.1	3.5	2.1
NE	3.7	1.2	.0	.0	.0			4.9	4.8		3.8	8.2	4.7	3.0
E	7.0	6.4	.6	.0	.0			14.0	7.6		7.2	16.2	22.7	12.3
SE	11.6	26.4	5.9	.3	.0			44.2	10.5		50.9	44.2	32.7	45.7
S	6.9	10.6	1.6	.0	.0			19.2	9.1		24.1	14.8	21.3	18.7
SW	3.5	3.2	.3	.1	.0			7.1	8.1		7.4	5.2	4.9	9.5
W	1.4	1.0	.3	.1	.0			2.6	6.3		2.2	2.8	1.6	3.2
NW	1.6	1.3	.0	.0	.0			2.9	6.6		1.3	4.6	4.9	1.7
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	2.7							2.7	.0		1.9	1.0	4.1	3.8
TOT OBS	302	382	66	5	0		753		8.8		159	208	122	264
TOT PCT	40.1	50.7	8.8	.4	.0			100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1927-1969
(OVER-ALL) 1885-1969

JULY

AREA 0003 CUMBERLAND ISLANDS
19.75 148.3F

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)							PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+	MEAN		
00003	1.9	13.2	52.8	27.0	4.4	.6	.0	8.9	100.0	159
06009	1.0	14.4	54.1	24.5	1.0	.0	.0	8.2	100.0	208
12015	4.1	5.7	57.4	29.5	3.3	.0	.0	9.4	100.0	122
18021	3.8	12.9	48.1	33.3	1.9	.0	.0	8.9	100.0	264
TOT	20	92	404	218	18	1	0	8.8		753
PCT	2.7	12.2	53.7	29.0	2.4	.1	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.1	.0	.0	.0		.3
NE	1.7	.0	.0	.0		.0
E	8.2	.8	1.3	.0		1.5
SE	20.3	7.7	15.0	1.7		2.9
S	12.8	1.3	4.5	2.6		2.7
SW	4.5	.0	.9	.2		1.7
W	1.3	.8	.0	.0		1.7
NW	1.5	.0	.0	.0		.0
VAR	.0	.0	.0	.0		.0
CALM	4.5	.0	.0	.0		.3
TOT OBS	84	14	29	6	133	2.4
TOT PCT	63.2	10.5	21.8	4.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7
E	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	9.8
SE	.0	.0	.0	3.0	3.4	.2	.0	.0	.0	.0	.0	44.2
S	.0	.0	.0	.6	4.1	.6	.0	.0	.0	.0	.0	16.0
SW	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	5.5
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5
TOT OBS	0	0	0	6	10	1	0	0	0	0	.0	133
TOT PCT	.0	.0	.0	4.5	7.5	.8	.0	.0	.0	.0	.0	87.2

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10		= OR >5		= OR >2		= OR >1		= OR >1/2		= OR >1/4		= OR >5000		= OR >0	
	VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)	
= OR >4500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
= OR >4000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3000	.0	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7	.7
= OR >2500	6.7	7.5	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
= OR >2000	10.4	11.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
= OR >1500	10.4	11.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
= OR >1000	10.4	11.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
= OR >500	10.4	11.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
= OR >0	10.4	11.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
TOTAL	14	16	17	17	17	17	17	17	17	17	17	17	17	17	17	17

TOTAL NUMBER OF OBS: 134

PCT FREQ NH <5/8: 87.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
37.1	29.2	12.4	8.8	4.4	2.9	3.6	2.9	3.6	.0	137

PERIOD: (PRIMARY) 1922-1969
(OVER-ALL) 1885-1969

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19.75 148.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.2	.0	.2	.0	.2	.0	.0	.0	.0	.2	.8	
	TOT %	.2	.0	.4	.0	.2	.0	.0	.0	.0	.2	1.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.4	.0	.1	.4	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.4	.0	.1	.4	.0	.0	.0	.0	.0	.8	
5<10	PCP	.0	.4	.2	.3	.3	.1	.0	.0	.0	.0	1.2	
	NO PCP	1.3	3.1	8.9	22.5	9.9	2.8	2.0	2.7	.0	.2	52.8	
	TOT %	1.3	3.5	9.0	22.8	9.8	2.8	2.0	2.7	.0	.2	54.0	
10+	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	1.0	2.1	4.7	21.7	7.5	3.3	.8	.8	.0	2.1	43.9	
	TOT %	1.0	2.1	4.7	21.9	7.5	3.3	.8	.8	.0	2.1	44.1	
TOT OBS													487
TOT PCT		2.5	6.0	14.1	44.3	17.8	6.2	2.7	3.5	.0	2.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.2	.0	.2	.0	.2	.0	.0	.0	.0	.0	.5	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.3	.0	.2	.0	.0	.0	.0	.2	.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
2<5	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.2	.0	.2	.1	.0	.0	.0	.0	.0	.5	
	11-21	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.3	.0	.2	.3	.0	.0	.0	.0	.0	.8	
5<10	0-3	.2	1.1	1.5	1.5	1.3	.9	.7	.3	.0	.2	7.7	
	4-10	.6	1.4	4.1	9.5	6.8	1.6	.7	1.4	.0	.0	26.1	
	11-21	.2	.2	1.6	8.2	2.7	1.0	.6	.3	.0	.0	14.6	
	22+	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	
	TOT %	1.0	2.7	7.2	19.7	10.6	3.4	2.0	2.0	.0	.2	48.9	
10+	0-3	.1	.5	.7	1.2	.4	.9	.2	.3	.0	1.9	6.6	
	4-10	1.1	.9	4.1	11.8	3.7	1.6	.5	.6	.0	.0	24.5	
	11-21	.0	.0	1.5	10.5	2.9	.9	.0	.0	.0	.0	13.7	
	22+	.0	.0	.0	1.3	.6	.3	.3	.0	.0	.0	2.5	
	TOT %	1.2	1.9	6.3	24.7	7.6	3.8	1.1	.9	.0	1.9	49.4	
TOT OBS													636
TOT PCT		2.4	4.2	13.8	44.7	18.8	7.2	3.0	3.0	.0	2.2	100.0	

JULY

PERIOD: (PRIMARY) 1922-1969
(OVERALL) 1885-1969AREA 0003 CUMBERLAND ISLANDS
19.75 148.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 594	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000Z	.0	.0	.0	2.6	13.2	.0	.0	.0	.0	.0	15.8	84.2	38
0600Z	.0	.0	.0	2.8	5.6	.0	.0	.0	.0	.0	8.3	91.7	36
1201Z	.0	.0	.0	3.6	7.1	3.6	.0	.0	.0	.0	14.3	85.7	28
1802Z	.0	.0	.0	8.8	2.9	.0	.0	.0	.0	.0	11.8	88.2	34
TOT	0	0	0	6	10	1	0	0	0	0	17	119	136
PCT	.0	.0	.0	4.4	7.4	.7	.0	.0	.0	.0	12.5	87.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000Z	.0	.0	.0	.0	38.9	61.1	131
0600Z	.0	.0	.5	2.7	56.3	40.4	103
1201Z	.0	.9	.0	.0	47.3	51.8	112
1802Z	.0	1.7	.0	.0	53.2	45.1	233
TOT	0	5	1	5	331	317	659
PCT	.0	.8	.2	.8	50.2	48.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <500YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
0000Z	.0	.0	2.7	13.5	83.8	37
0600Z	.0	.0	5.7	2.9	91.4	35
1201Z	.0	.0	3.6	10.7	85.7	28
1802Z	.0	.0	8.8	2.9	88.2	34
TOT	0	0	7	10	117	134
PCT	.0	.0	5.2	7.5	87.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
60/84	.0	.0	.0	.0	.2	.5	.2	.2	5	1.2
75/79	.0	.0	.0	2.0	.7	2.5	1.5	1.0	31	7.7
79/74	.0	.0	.2	1.0	5.2	9.7	15.8	5.9	152	37.9
69/69	.0	.0	1.5	3.5	7.2	6.4	15.1	6.2	173	42.8
60/64	.0	.0	.7	1.7	2.0	1.7	2.2	1.5	38	9.4
59/59	.0	.0	.0	.2	.2	.2	.2	.0	4	1.0
TOTAL	0	0	10	32	63	93	146	60	404	100.0
PCT	.0	.0	2.5	7.9	15.6	23.0	36.1	14.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
60/84	.0	.2	.2	.2	.0	.2	.0	.0	.0	.2
75/79	.0	1.5	.6	2.5	1.5	.2	.2	.7	.0	.2
79/74	1.6	2.8	7.9	17.3	3.3	2.1	.8	1.9	.0	.2
69/69	.6	1.5	5.9	20.4	9.5	2.1	.2	1.1	.0	1.5
60/64	.0	.0	.6	2.6	3.2	1.8	1.0	.0	.0	.2
59/59	.0	.0	.2	.1	.1	.2	.2	.0	.0	.0
TOTAL	2.2	6.1	15.5	43.2	17.6	6.7	2.5	3.7	.0	2.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000Z	82	81	78	60	63	61	55	69.9	156
0600Z	86	79	76	70	64	60	58	69.7	207
1201Z	76	73	72	68	62	59	59	67.8	125
1802Z	84	79	73	68	60	58	56	67.4	263
TOT	86	79	75	69	60	58	55	60.6	751

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000Z	.0	14.0	15.1	24.4	33.7	12.8	76	86
0600Z	.0	11.9	18.6	25.4	31.4	12.7	76	118
1201Z	.0	10.6	12.1	16.7	45.5	15.2	79	66
1802Z	.0	6.9	14.6	22.9	37.5	16.1	79	144
TOT	0	43	64	95	150	62	77	414

JULY

PERIOD: (PRIMARY) 1927-1969
(OVER-ALL) 1885-1969AREA 0003 CUMBEKLAND ISLANDS
19.75 148.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEC F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DFG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.3	1	.0	.3
7/P	.0	.0	.0	.0	.3	.8	.0	4	.0	1.0
6	.0	.0	.0	.0	.3	.3	.0	2	.0	.5
5	.0	.0	.0	.3	1.0	.3	.0	6	.0	1.6
4	.0	.0	.0	.5	2.9	.0	.0	13	.0	3.4
3	.0	.0	.8	1.0	1.8	.3	.0	15	.3	3.6
2	.0	.0	.8	5.7	1.8	.0	.3	33	.3	8.3
1	.0	.0	1.8	9.9	1.0	.0	.0	49	.3	12.5
0	.0	.3	2.3	11.7	1.3	.0	.0	60	.3	15.3
-1	.0	.3	7.0	7.3	.8	.0	.0	59	.3	15.1
-2	.0	.5	8.3	6.0	.0	.0	.0	57	.3	14.5
-3	.0	.5	3.9	2.1	.3	.0	.0	26	.0	6.8
-4	.0	.8	3.9	.3	.0	.0	.0	19	.0	4.9
-5	.0	1.0	2.6	.8	.0	.0	.0	17	.0	4.4
-6	.0	.8	1.6	.0	.0	.0	.0	9	.3	2.1
-7/-8	.0	1.6	1.0	.3	.0	.0	.0	11	.0	2.9
-9/-10	.3	.5	.0	.0	.0	.0	.0	3	.0	.8
-11/-13	.3	.0	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	2	24	131	176	44	6	2	385	7	378
PCT	.5	6.2	34.0	45.7	11.4	1.6	.5	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	2.4	.0	.0	.0	.0	2.4	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.4	.0	.0	.0	.0	2.4	.0	2.4	.0	.0	.0	.0	2.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	2.4	2.4	.0	.0	.0	.0	4.8	1.2	4.8	.0	.0	.0	.0	6.0
1-2	.0	.0	1.2	.0	.0	.0	1.2	.0	6.5	3.9	.0	.0	.0	10.4
3-4	.0	1.2	3.3	.0	.0	.0	4.5	.0	3.6	17.3	2.4	.0	.0	23.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.6	.0	.0	3.0
7	.0	.0	.9	.0	.0	.0	.9	.0	.0	.6	4.8	.0	.0	5.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.9	.0	.0	.0	.9	.0	.0	.3	.0	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.4	3.6	6.3	.0	.0	.0	12.2	1.2	14.9	24.4	8.9	.0	.0	49.4

PERIOD: (OVER-ALL) 1963-1969

JULY

TABLE 18 (CONT)

AREA 0003 CUMBERLAND ISLANDS
19.75 148.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	.0	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0
1-2	1.2	2.7	.9	.0	.0	.0	4.8	.0	4.2	.0	.0	.0	.0	4.2
3-4	.0	2.4	4.2	1.2	.0	.0	7.7	.0	.0	1.5	.0	.0	.0	1.5
5-6	.0	.0	.0	1.8	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	7.1	7.1	3.0	.0	.0	18.5	1.2	4.2	1.5	.0	.0	.0	7.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.9	.0	.0	.0	.0	.9	.0	1.2	.0	.0	.0	.0	1.2	.0
3-4	.0	.0	.0	2.4	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.9	.0	2.4	.0	.0	3.3	.0	1.2	.0	.0	.0	.0	1.2	96.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.3	10.7	.0	.0	.0	.0	19.0	
1-2	1.2	19.0	6.0	.0	.0	.0	26.2	
3-4	.0	7.1	26.2	6.0	.0	.0	39.3	
5-6	.0	.0	2.4	2.4	.0	.0	4.8	
7	.0	.0	3.6	4.8	.0	.0	8.3	
8-9	.0	.0	.0	1.2	.0	.0	1.2	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	1.2	.0	.0	.0	1.2	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.5	36.9	39.3	14.3	.0	.0	100.0	84

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	17.3	19.1	24.5	7.3	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	78
6-7	.0	.9	5.5	1.8	6.4	1.8	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
INDEX	6.4	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0
TOTAL	26	22	34	12	11	3	1	1	0	0	0	0	0	0	0	0	0	0	0	0	110
PCT	23.6	20.0	30.9	10.9	10.0	2.7	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

AUGUST

PERIOD: (PRIMARY) 1889-1969
(OVER-ALL) 1867-1969AREA 0003 CUMBERLAND ISLANDS
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.4	.0	90.6
NE	.0	.0	.0	.0	.0	.0	.0	.0	1.8	.0	.0	.0	.0	.0	98.2
E	.0	.4	.0	.0	.0	.0	.0	.4	.6	.9	3.9	.0	1.7	.0	92.4
SE	.0	6.0	1.6	.0	.0	.0	.0	7.5	.1	.9	2.4	.0	.4	.0	88.6
S	2.6	2.6	.7	.0	.0	.0	.0	5.9	.0	.0	2.6	.0	2.6	.0	88.6
SW	6.7	.0	.0	.0	.0	.0	.0	6.7	.0	.0	.0	.0	5.0	.0	88.2
W	7.7	.0	.0	.0	.0	.0	.0	7.7	.0	.0	.0	.0	3.8	.0	88.5
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	.0	.0	2.4	.0	95.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.1	.0	.0	.0	.0	88.9
TOT PCT	.8	2.6	.7	.0	.0	.0	.0	4.1	.3	.8	2.0	.0	2.0	.0	90.8
TOT OBS:	608														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT GB TIME	PCPN PAST HOUR	THOR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
0000	.0	2.3	1.5	.0	.0	.0	.0	3.8	.6	.0	1.5	.0	2.3	.0	91.5	
0600	1.0	1.5	.5	.0	.0	.0	.0	3.0	.0	1.0	1.5	.0	3.0	.0	91.5	
1200	.0	3.3	.0	.0	.0	.0	.0	3.3	.8	1.7	1.7	.0	.8	.0	91.7	
1800	1.4	3.3	1.0	.0	.0	.0	.0	5.7	.0	.5	2.4	.0	1.0	.0	90.4	
TOT PCT TOT OBS:	.8 661	2.6	.8	.0	.0	.0	.0	4.1	.3	.8	1.8	.0	1.8	.0	91.2	

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	1.5	4.3	.4	.0	.0	.0		6.3	6.1	9.0	1.2	4.9	8.4	5.5	7.9	4.0	4.9
NE	3.4	5.2	.4	.0	.0	.0		9.0	5.1	.6	3.6	10.6	19.3	15.6	14.0	7.3	2.2
E	3.6	11.6	5.1	.4	.0	.0		20.7	8.2	25.6	16.2	24.6	29.7	21.1	26.6	14.6	12.9
SE	4.5	16.1	14.6	1.1	.0	.0		35.4	9.9	31.4	47.0	35.1	32.7	39.1	26.2	35.9	33.9
S	2.4	6.1	3.8	.1	.0	.0		12.4	8.2	17.3	14.8	5.8	1.0	5.5	7.0	17.9	26.8
SW	1.1	1.5	2.3	.0	.0	.0		4.9	9.8	2.6	5.2	2.9	2.0	3.1	4.2	8.9	6.7
W	1.1	.8	.2	.0	.0	.0		2.1	4.9	.0	2.8	.4	1.0	.0	2.8	3.3	3.6
NW	1.9	3.5	.7	.0	.0	.0		6.1	5.5	13.5	6.8	7.2	2.5	10.2	6.5	3.1	6.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1	.0	.0	.0	.0	.0		3.1	.0	.0	2.4	3.6	4.0	.0	4.7	3.5	2.7
TOT OBS	181	393	213	12	0	0		799		39	125	139	101	32	107	144	112
TOT PCT	22.7	49.2	26.7	1.5	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	4.0	2.2	.1	.0	.0		6.3	6.1	3.0	9.3	7.4	4.9	
NE	6.7	2.3	.0	.0	.0		9.0	5.1	2.9	14.3	14.4	5.1	
E	6.6	11.0	1.0	.1	.0		20.7	8.2	18.4	26.8	25.4	13.9	
SE	11.0	19.5	4.9	.1	.0		35.4	9.9	43.3	33.9	29.1	35.1	
S	5.4	6.4	.6	.0	.0		12.4	8.2	15.4	3.8	6.7	21.8	
SW	1.6	2.7	.6	.0	.0		4.9	9.8	4.6	2.5	4.0	7.9	
W	1.5	.6	.0	.0	.0		2.1	4.9	2.1	.6	2.2	3.4	
NW	4.7	1.4	.0	.0	.0		6.1	5.5	8.6	5.2	7.4	4.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.1	.0	.0	.0	.0		3.1	.0	1.8	3.8	3.6	3.1	
TOT OBS	372	368	58	1	0		799		164	240	139	256	
TOT PCT	46.6	46.1	7.3	.1	.0		100.0		100.0	100.0	100.0	100.0	

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PERIOD: (PRIMARY) 1889-1969
(OVER-ALL) 1883-1969AREA C003 CUMBERLAND ISLANDS
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
00003	1.8	20.7	50.0	26.2	1.2	.0	.0	.0	8.0	100.0	164
06009	3.8	21.3	46.7	27.9	.4	.0	.0	.0	7.8	100.0	240
12015	3.6	13.7	53.2	27.3	2.2	.0	.0	.0	8.2	100.0	139
18021	3.1	20.3	48.8	25.4	2.3	.0	.0	.0	8.0	100.0	256
TOT	75	156	393	213	12	0	0	0	8.0		799
PCT	3.1	19.5	49.2	26.7	1.5	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.7	1.8	1.5	.0		2.0
NE	3.6	.4	1.6	.0		2.2
E	10.9	2.0	8.2	.0		3.1
SE	19.3	6.9	6.9	4.2		3.0
S	5.3	1.3	.7	1.6		2.6
SW	6.0	.0	.7	.7		1.5
W	.0	.0	.0	.0		.0
NW	7.5	.7	.0	.7		1.5
VAR	.0	.0	.0	.0		.0
CALM	1.5	.0	.0	.0		.0
TOT OBS	82	18	27	10	137	2.6
TOT PCT	59.9	13.1	19.7	7.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	7.5
NE	.0	.0	.0	.7	.0	.9	.0	.0	.0	.0	.0	4.0
E	.0	.0	.0	1.5	2.0	2.6	.7	.0	.0	.0	.0	14.4
SE	.0	.0	.4	1.5	2.4	2.6	.0	.0	.0	.0	.0	30.7
S	.0	.0	.4	.0	.0	1.3	.0	.0	.0	.0	.0	7.3
SW	.0	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	6.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	8.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5
TOT OBS	0	0	1	8	8	10	1	0	0	0	0	109
TOT PCT	.0	.0	.7	5.8	5.8	7.3	.7	.0	.0	.0	.0	79.6

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.0	.0	.0	.0	.0	.0	.0	.0
>3500	.7	.7	.7	.7	.7	.7	.7	.7
>2000	6.5	7.9	7.9	7.9	7.9	7.9	7.9	7.9
>1000	11.5	13.7	13.7	13.7	13.7	13.7	13.7	13.7
>600	15.1	19.4	19.4	19.4	19.4	19.4	19.4	19.4
>300	15.1	19.4	20.1	20.1	20.1	20.1	20.1	20.1
>150	15.1	19.4	20.1	20.1	20.1	20.1	20.1	20.1
>0	15.1	19.4	20.1	20.1	20.1	20.1	20.1	20.1
TOTAL	21	27	28	28	28	28	28	28

TOTAL NUMBER OF OBS: 139

PCT FREQ NH <5/8: 79.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
30.8	30.1	11.2	6.3	2.1	8.4	2.1	4.9	4.2	.0		143

PERIOD: (PRIMARY) 1889-1969
(OVER-ALL) 1863-1969

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.2	.8	.3	.0	.0	.0	.0	.0	.0	1.3
	TOT %	.0	.0	.2	.8	.3	.0	.0	.0	.0	.0	.0	1.3
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.3	.0	.0	.0	.3	.2	.1	.0	.0	.0	.0	1.0
	TOT %	.3	.0	.0	.0	.3	.2	.1	.0	.0	.0	.0	1.0
2<5	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2
	NO PCP	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.7
	TOT %	.0	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	.8
5<10	PCP	.0	.0	.1	2.4	.5	.3	.2	.0	.0	.0	.0	3.5
	NO PCP	4.4	6.7	11.4	18.5	7.2	2.6	1.6	4.4	.0	.3	.3	57.2
	TOT %	4.4	6.7	11.5	20.9	7.7	3.0	1.7	4.4	.0	.3	.3	60.7
10+	PCP	.0	.0	.0	.3	.2	.0	.0	.0	.0	.0	.0	.5
	NO PCP	7.3	2.2	6.9	14.9	3.9	1.7	.3	2.3	.0	1.2	.3	35.7
	TOT %	7.3	2.2	6.9	15.3	4.0	1.7	.3	2.3	.0	1.2	.3	36.2
TOT OBS													608
TOT PCT													7.0 9.1 19.0 37.1 12.5 4.9 2.1 6.8 .0 1.5 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3	.3
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.2	.0	.1	.0	.0	.0	.0	.0	.4	.4
	11-21	.0	.0	.0	.7	.1	.0	.0	.0	.0	.0	.9	.9
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.2	.7	.3	.0	.0	.0	.0	.0	1.3	1.3
1<2	0-3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
	4-10	.3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.6	.6
	11-21	.0	.0	.0	.0	.3	.2	.1	.0	.0	.0	.6	.6
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.3	.1	.1	.3	.2	.1	.0	.0	.0	1.4	1.4
2<5	0-3	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	.3
	4-10	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.3	.3
	11-21	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.3	.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.5	.1	.1	.0	.0	.0	.0	.0	.9	.9
5<10	0-3	1.3	2.4	2.0	2.9	2.1	.7	1.0	1.7	.0	.4	14.5	14.5
	4-10	2.4	3.3	6.7	10.1	3.0	.5	.4	2.1	.0	.0	28.6	28.6
	11-21	.1	.2	2.1	5.8	2.0	1.4	.1	.1	.0	.0	11.9	11.9
	22+	.0	.0	.1	.4	.1	.0	.0	.0	.0	.0	.6	.6
	TOT %	3.8	5.9	10.9	19.2	7.2	2.6	1.5	3.9	.0	.4	55.5	55.5
10+	0-3	.4	.9	1.7	2.0	.4	.1	.1	.2	.0	1.7	7.5	7.5
	4-10	1.6	1.7	4.2	6.6	2.8	1.0	.2	1.6	.0	.0	19.7	19.7
	11-21	.4	.1	2.5	7.4	1.3	.9	.0	.7	.0	.0	13.2	13.2
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	2.3	2.8	8.4	16.1	4.5	2.0	.3	2.5	.0	1.7	40.6	40.6
TOT OBS													690
TOT PCT													6.4 9.2 20.3 36.4 12.4 4.8 1.9 6.4 .0 2.2 100.0

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PERIOD: (PRIMARY) 1889-1969
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	2.6	2.6	7.7	7.7	.0	.0	.0	.0	20.5	79.5	39
06009	.0	.0	.0	5.4	2.7	5.4	.0	.0	.0	.0	13.5	86.5	37
12015	.0	.0	.0	6.5	6.5	3.4	.0	.0	.0	.0	16.1	83.9	31
18021	.0	.0	.0	8.3	5.6	11.1	2.8	.0	.0	.0	27.8	72.2	36
TOT	0	0	1	8	8	10	1	0	0	0	28	115	143
PCT	.0	.0	.7	5.6	5.6	7.0	.7	.0	.0	.0	19.6	80.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.4	1.4	.7	41.9	54.7	148
06009	.4	.9	2.2	1.8	63.0	31.7	227
12015	.8	.8	.8	.0	61.5	36.2	130
18021	.0	1.7	.8	.4	62.3	34.7	239
TOT	2	9	10	6	434	283	744
PCT	.3	1.2	1.3	.8	58.3	38.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	2.6	5.3	15.8	78.9	38
06009	.0	.0	5.6	8.3	86.1	36
12015	.0	.0	6.5	9.7	83.9	31
18021	.0	.0	8.8	20.6	70.6	34
TOT	0	1	9	19	111	139
PCT	.0	.7	6.5	13.7	79.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.3	.0	.0	.0	1	.3
79/79	.0	.0	.3	.3	1.7	2.3	1.4	1.7	27	7.7
70/74	.0	.3	.9	1.4	7.7	10.0	16.0	10.0	162	46.2
69/69	.0	.0	1.4	2.3	3.1	8.8	11.4	10.8	133	37.9
60/64	.0	.0	.0	1.7	.9	1.4	1.4	2.0	26	7.4
59/59	.0	.0	.0	.0	.0	.3	.3	.0	2	.6
TOTAL	0	1	9	20	48	80	107	86	351	100.0
PCT	.0	.3	2.6	5.7	13.7	22.8	30.5	24.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
.6	.3	1.7	3.7	.9	.0	.0	.0	.0	.0	.3
2.8	4.6	10.5	19.7	2.8	.1	.6	3.8	.0	.0	1.1
1.0	1.9	5.3	18.6	7.1	1.8	.7	1.0	.0	.0	.6
.6	.0	.3	2.0	2.3	1.4	.0	.6	.0	.0	.3
.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0
5.1	6.9	18.1	44.0	13.1	3.9	1.3	5.3	.0	.0	2.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	85	82	79	71	65	64	61	71.3	165
06009	84	81	78	72	67	64	62	71.9	259
12015	80	78	77	70	65	63	63	70.1	149
18021	78	77	76	69	63	60	59	68.6	266
TOT	85	80	77	70	64	62	59	70.5	839

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	8.9	19.0	25.3	24.1	22.8	77	79		
06009	.0	12.3	17.9	21.7	27.4	20.8	76	106		
12015	.0	9.1	10.6	28.8	30.3	21.2	79	66		
18021	.0	6.2	8.0	20.4	35.4	30.1	82	113		
TOT	0	33	50	85	108	88	79	364		

PERIOD: (PRIMARY) 1889-1969
(OVER-ALL) 1863-1969

AUGUST

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	83 88	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.2	.0	.0	1	.0	.2
9/10	.0	.0	.0	.0	.2	.2	.2	.0	3	.0	.6
7/8	.0	.0	.0	.2	.0	.4	.2	.2	5	.0	.9
6	.0	.0	.0	.0	.2	.8	.0	.0	5	.0	.9
5	.0	.0	.0	.0	1.1	.8	.0	.0	10	.0	1.9
4	.0	.0	.0	.4	2.1	.4	.2	.0	16	.0	3.0
3	.0	.0	.4	2.1	2.1	.4	.4	.0	28	.0	5.3
2	.0	.0	.6	6.0	1.9	.8	.0	.0	49	.0	9.2
1	.0	.0	1.7	5.8	2.8	1.5	.0	.0	63	.0	11.9
0	.0	.4	2.6	8.9	2.6	2.8	.0	.0	92	.8	16.6
-1	.0	.2	3.4	6.6	4.0	.2	.0	.0	76	.2	14.1
-2	.0	.4	6.0	6.6	2.3	.0	.0	.0	81	.9	14.3
-3	.0	.6	2.4	1.5	.9	.2	.0	.0	30	.2	5.5
-4	.0	.9	2.6	1.5	.8	.2	.0	.0	32	.0	6.0
-5	.0	1.7	1.5	.8	.2	.0	.0	.0	22	.0	4.1
-6	.0	.6	.6	.0	.0	.0	.0	.0	6	.0	1.1
-7/-8	.2	.8	.2	.0	.0	.2	.0	.0	7	.0	1.3
-9/-10	.0	.2	.4	.2	.0	.0	.0	.0	4	.0	.8
-11/-13	.0	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	1	31	119	215	112	47	1	531	100.0	2.1	97.9
PCT	.2	5.8	22.4	40.5	21.1	8.9	.9	.2			

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	.9	.0	.0	.0	.0	2.2	.0	1.6	.0	.0	.0	.0	1.6
1-2	.0	.9	.9	.0	.0	.0	1.9	.0	4.1	.0	.0	.0	.0	4.1
3-4	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.9	.0	.0	.0	.0	.9	.0	.3	.0	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	3.8	.9	.0	.0	.0	5.9	.0	5.9	.0	.0	.0	.0	5.9

HGT	E							SE						
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	1.3	3.8	.0	.0	.0	.0	5.0
1-2	.0	5.9	4.7	.0	.0	.0	10.6	.0	10.0	7.8	.0	.0	.0	17.8
3-4	.0	5.9	5.3	.0	.0	.0	11.3	.0	5.6	7.5	.0	.0	.0	13.1
5-6	.0	.9	2.5	.0	.0	.0	3.4	.0	.3	1.3	.0	.0	.0	1.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	1.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	12.8	12.5	.0	.0	.0	25.3	1.3	19.7	19.1	.0	.0	.0	40.0

PERIOD: (OVER-ALL) 1963-1969

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	1.3	.0	.0	.0	.0	.0	1.3
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.9	4.7	.0	.0	.0	5.6	.0	1.3	1.3	.0	.0	.0	2.5
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	5.9	.0	.0	.0	8.1	1.3	1.3	1.3	.0	.0	.0	3.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	3.8	.0	.0	.0	.0	.0	3.8
1-2	.0	.0	.0	.0	.0	.0	.0	.0	1.6	.3	.0	.0	.0	.0	1.9
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.6	1.3	.0	.0	.0	.0	2.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	.0	.0	.0	.0	.0	.0	6.9	1.6	.0	.0	.0	8.4	97.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.3	11.3	.0	.0	.0	.0	17.5	
1-2	.0	22.5	13.8	.0	.0	.0	36.3	
3-4	.0	16.3	20.0	.0	.0	.0	36.3	
5-6	.0	2.5	5.0	.0	.0	.0	7.5	
7	.0	.0	1.3	.0	.0	.0	1.3	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	1.3	.0	.0	.0	1.3	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.3	52.5	41.3	.0	.0	.0	100.0	80

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	8.4	22.7	37.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	83
6-7	.0	.0	8.4	5.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18
8-9	.0	.8	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4
10-11	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
12-13	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10
INDET	5.9	2.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
TOTAL	17	31	56	12	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	119
PCT	14.3	26.1	47.1	10.1	.8	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1899-1969
(OVER-ALL) 1882-1969

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	.0	2.7	.0	.0	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	97.3
NE	.0	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	99.6
E	.6	.6	.0	.0	.0	.0	.0	1.2	.9	.0	.0	.5	2.3	.0	95.2
SE	1.7	1.7	2.5	.0	.0	.0	.0	5.9	.4	.0	.2	.0	1.5	.0	92.0
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	.0	94.7
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.9	.0	93.1
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.5	.0	90.5
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	.0	3.6	.0	89.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	.7	.9	.7	.0	.0	.0	.0	2.2	.4	.0	.7	.0	2.0	.0	94.8
TOT OBS:	460														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA	
00&03	1.0	1.0	1.0	.0	.0	.0	.0	3.0	.0	.0	1.0	.0	4.0	.0	92.0	
06&09	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	99.3	
12&15	.0	1.0	1.0	.0	.0	.0	.0	2.0	1.0	1.0	1.0	.0	2.0	.0	93.1	
18&21	1.3	1.3	.7	.0	.0	.0	.0	3.3	.7	.0	.7	.0	1.3	.0	94.1	
TOT PCT	.6	.8	.6	.0	.0	.0	.0	2.0	.4	.2	.6	.0	1.8	.0	94.9	
TOT OBS:	488															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.9	5.0	.4	.0	.0	.0		7.3	5.4		2.4	11.9	6.4	7.1	7.4	5.8	6.7	6.8
NE	3.6	9.2	.8	.0	.0	.0		13.6	5.6		3.2	14.4	14.7	22.6	8.1	20.3	8.7	8.2
E	3.2	19.8	9.7	.5	.0	.0		33.3	9.2		16.1	24.8	40.3	35.1	49.3	36.0	34.2	30.4
SE	2.2	12.4	11.3	1.0	.0	.0		26.9	10.8		51.6	26.0	26.7	23.8	27.2	23.8	26.0	26.4
S	2.0	1.5	1.8	.1	.0	.0		5.5	8.4		12.9	6.7	3.1	1.2	4.4	1.2	6.9	10.6
SW	.8	1.1	.3	.0	.0	.0		2.1	6.0		3.2	3.0	1.1	1.8	.7	.6	2.0	4.3
W	.7	.7	.4	.0	.0	.0		1.8	6.4		2.4	4.0	.0	1.8	.0	.6	1.5	3.3
NW	1.7	3.8	1.3	.0	.0	.0		6.8	6.8		4.8	7.4	5.6	6.5	2.9	9.3	7.2	6.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.7							2.7	.0		3.2	2.0	2.2	.0	.0	2.3	6.9	3.3
TOT OBS	116	332	161	10	0	0	619		8.3		31	101	90	84	34	86	101	92
TOT PCT	18.7	53.6	26.0	1.6	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	5.3	1.9	.1	.0	.0		7.3	5.4	9.7	6.8	6.3	6.7
NE	9.5	4.0	.1	.0	.0		13.6	5.6	11.7	18.5	16.9	8.4
E	10.8	19.7	2.8	.0	.0		33.3	9.2	22.7	37.8	39.8	32.4
SE	7.7	14.0	5.0	.2	.0		26.9	10.8	32.0	25.3	24.8	26.2
S	2.6	2.3	.5	.1	.0		5.5	8.4	8.1	2.2	2.1	8.7
SW	1.3	.8	.0	.0	.0		2.1	6.0	3.0	1.4	.6	3.1
W	1.2	.5	.1	.0	.0		1.8	6.4	3.6	.9	.4	2.3
NW	4.3	2.0	.5	.0	.0		6.8	6.8	6.8	6.0	7.5	7.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.7						2.7	.0	2.3	1.1	1.7	5.2
TOT OBS	282	279	56	2	0	619		8.3	132	174	120	193
TOT PCT	45.6	45.1	9.0	.3	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	2.3	22.7	47.0	25.0	3.0	.0	.0	.0	8.2	100.0	132
06009	1.1	14.9	54.0	29.9	.0	.0	.0	.0	8.7	100.0	174
12015	1.7	12.5	55.8	28.3	1.7	.0	.0	.0	8.6	100.0	120
18021	5.2	14.5	56.5	21.8	2.1	.0	.0	.0	7.7	100.0	193
TOT	17	99	332	161	10	0	0	0	8.3		619
PCT	2.7	16.0	53.6	26.0	1.6	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCO	TOTAL OBS	MEAN CLOUD COVER
N	3.8	.0	.0	.7		1.5
NE	3.8	1.9	1.0	.2		2.6
E	25.5	4.3	3.6	.0		1.6
SE	23.8	7.4	4.3	1.9		2.2
S	2.4	3.6	.7	.0		2.6
SW	.2	.0	1.0	.0		4.8
W	.7	.0	.0	.0		1.0
NW	2.6	.0	.0	.0		.2
VAR	.0	.0	.0	.0		.0
CALM	4.8	1.9	.0	.0		1.2
TOT OBS	71	20	11	3	105	2.0
TOT PCT	67.6	19.0	10.5	2.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	3.8	
NE	.0	.0	.0	1.0	.2	.0	.0	.0	.0	.0	5.7	
E	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.0	31.7	
SE	.0	.0	.0	1.0	2.1	1.0	.0	.0	.0	.0	33.3	
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	
TOT OBS	0	0	0	2	5	1	0	0	0	0	97	105
TOT PCT	.0	.0	.0	1.9	4.8	1.0	.0	.0	.0	.0	92.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >2000	.9	.9	.9	.9	.9	.9	.9	.9
= OR >1000	4.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
= OR >600	5.6	7.4	7.4	7.4	7.4	7.4	7.4	7.4
= OR >300	5.6	7.4	7.4	7.4	7.4	7.4	7.4	7.4
= OR >150	5.6	7.4	7.4	7.4	7.4	7.4	7.4	7.4
= OR >0	5.6	7.4	7.4	7.4	7.4	7.4	7.4	7.4
TOTAL	6	8	8	8	8	8	8	8

TOTAL NUMBER OF OBS: 108

PCT FREQ NH <5/8: 92.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCO	TOTAL OBS
	30.1	27.4	15.9	9.7	7.1	2.7	.9	.9	5.3	113

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
	TOT %	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2
	NO PCP	.0	.0	.2	.2	.0	.1	.1	.2	.0	.0	.9	.9
	TOT %	.0	.0	.2	.4	.0	.1	.1	.2	.0	.0	1.1	1.1
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.2
	TOT %	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.2
5<10	PCP	.0	.0	.4	1.1	.0	.0	.0	.0	.0	.0	1.5	1.5
	NO PCP	2.4	9.5	23.3	11.9	2.5	.8	.5	4.3	.0	1.3	56.5	56.5
	TOT %	2.4	9.5	23.8	13.0	2.5	.8	.5	4.3	.0	1.3	58.0	58.0
10+	PCP	.2	.1	.0	.2	.0	.0	.0	.0	.0	.0	.4	.4
	NO PCP	3.4	4.7	11.8	12.2	3.6	.7	.5	1.3	.0	1.7	40.0	40.0
	TOT %	3.6	4.7	11.8	12.4	3.6	.7	.5	1.3	.0	1.7	40.4	40.4
TOT OBS		6.0	14.2	36.0	25.9	6.1	1.6	1.1	6.1	.0	3.0	100.0	460

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

WITH VARYING WINDS													
VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.1	.1	.2	.0	.0	.4	.4
	4-10	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2
	TOT %	.0	.0	.2	.4	.0	.1	.1	.2	.0	.0	1.0	1.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.4	.4
5<10	0-3	.9	2.9	2.2	1.1	.7	.2	.1	1.1	.0	1.3	10.5	10.5
	4-10	1.3	5.1	13.4	5.3	.9	.4	.2	1.9	.0	.0	28.4	28.4
	11-21	.1	.7	5.3	4.5	.7	.3	.2	.9	.0	.0	12.6	12.6
	22+	.0	.0	.4	.8	.0	.0	.0	.0	.0	.0	1.1	1.1
	TOT %	2.3	8.6	21.2	11.8	2.2	.9	.5	3.9	.0	1.3	52.7	52.7
10+	0-3	1.0	.8	.3	1.0	1.4	.6	.3	.4	.0	1.7	7.4	7.4
	4-10	3.0	4.2	6.8	6.3	.8	.4	.1	1.9	.0	.0	23.5	23.5
	11-21	.3	.2	4.7	6.9	1.3	.0	.2	.7	.0	.0	14.3	14.3
	22+	.0	.0	.2	.2	.1	.0	.0	.0	.0	.0	.6	.6
	TOT %	4.3	5.1	12.0	14.6	3.6	1.0	.6	3.0	.0	1.7	45.8	45.8
TOT OBS		524											
TOT PCT													
		6.6	13.9	33.6	26.7	5.8	2.0	1.2	7.3	.0	3.1	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1899-1969
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	100 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	.0	9.7	.0	.0	.0	.0	.0	9.7	90.3	31
06009	.0	.0	.0	.0	4.8	.0	.0	.0	.0	.0	4.8	95.2	21
12015	.0	.0	.0	.0	3.1	3.1	.0	.0	.0	.0	6.3	93.8	32
18021	.0	.0	.0	7.7	.0	.0	.0	.0	.0	.0	7.7	92.3	26
TOT	0	0	0	2	5	1	0	0	0	0	8	102	110
PCT	.0	.0	.0	1.8	4.5	.9	.0	.0	.0	.0	7.3	92.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	1.8	.0	44.7	53.5	114
06009	.0	.0	.0	.7	64.5	34.9	132
12015	.9	.0	.9	.9	42.7	54.5	110
18021	.0	.0	1.1	.0	55.1	43.8	176
TOT	1	0	5	2	293	251	552
PCT	.2	.0	.9	.4	53.1	45.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	150-400 <1	400-1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	.0	9.7	90.3	31
06009	.0	.0	.0	5.0	95.0	20
12015	.0	.0	.0	6.3	93.8	32
18021	.0	.0	8.0	.0	92.0	25
TOT	0	0	2	8	100	108
PCT	.0	.0	1.9	5.6	92.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.4	.4	.7	.0	.4	.0	5	1.8
80/84	.0	.0	.4	.4	1.1	1.5	.7	.7	13	4.8
75/79	.0	.0	.0	.7	3.0	11.4	3.7	3.0	39	21.8
70/74	.0	.0	.7	2.6	11.1	18.5	18.8	7.4	160	59.0
65/69	.0	.0	.4	1.5	1.5	3.3	3.3	1.8	32	11.8
60/64	.0	.0	.0	.0	.0	.0	.7	.0	2	.7
TOTAL	0	0	5	15	47	94	75	35	271	100.0
PCT	.0	.0	1.8	5.5	17.3	34.7	27.7	12.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.7	.0	.0	.1	1.0	.0	.0	.0	.0	.0
80/84	.9	1.8	.0	.8	.3	.0	.4	.6	.0	.0
75/79	2.3	4.7	4.2	6.4	1.8	.0	.6	1.0	.0	.7
70/74	4.3	8.2	20.1	20.2	1.2	1.2	.7	2.9	.0	2.2
65/69	.2	.5	1.4	4.1	2.2	1.1	.2	.7	.0	1.5
60/64	.0	.0	.0	.5	.3	.0	.0	.0	.0	.0
TOTAL	8.5	13.2	25.6	32.0	6.8	2.3	1.9	5.2	.0	4.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	95%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	87	86	83	74	69	67	63	74.9	134
06009	85	82	80	74	69	65	64	73.7	182
12015	76	75	75	71	68	66	65	71.3	124
18021	82	79	77	71	67	63	63	71.5	202
TOT	87	83	79	73	68	65	63	72.8	642

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	12.5	20.3	32.8	25.0	9.4	74	64		
06009	.0	8.8	21.6	39.2	20.3	12.2	75	74		
12015	.0	9.1	16.4	29.1	30.9	14.5	77	55		
18021	.0	4.3	13.0	32.6	32.6	17.4	79	92		
TOT	0	22	50	96	78	39	76	285		

SEPTEMBER

PERIOD: (PRIMARY) 1899-1969
(OVER-ALL) 1882-1969

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.3	1	.0	.3
9/10	.0	.0	.0	.0	.0	.3	1	.0	.3
7/8	.0	.0	.0	.0	.3	.7	3	.0	1.0
6	.0	.0	.0	.3	.7	.0	3	.0	1.0
5	.0	.0	.0	1.6	.3	.0	6	.0	2.0
4	.0	.0	.0	3.3	1.6	.3	16	.0	5.2
3	.0	.3	1.0	2.6	.7	.3	15	.0	4.9
2	.0	.0	2.9	3.9	1.6	.0	26	.3	8.2
1	.0	.3	3.6	7.8	2.3	.0	43	.3	13.7
0	.0	.7	11.8	9.2	1.3	.0	70	.0	22.9
-1	.0	.3	7.5	6.2	.0	.0	43	.0	14.1
-2	.0	2.0	7.8	3.3	.0	.0	40	.0	13.1
-3	.0	1.6	2.6	1.3	.0	.0	17	.0	5.6
-4	.0	1.0	2.6	.0	.0	.0	11	.0	3.6
-5	.0	1.0	1.3	.0	.0	.0	7	.0	2.3
-6	.0	.3	.7	.0	.0	.0	3	.0	1.0
-7/-8	.3	.0	.0	.0	.0	.0	1	.0	.3
TOTAL	1	23	128	121	27	6	306	2	304
PCT	.3	7.5	41.9	39.5	8.8	1.9	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	.4	.0	.0	.0	.0	.4
1-2	.0	3.7	.0	.0	.0	.0	3.7	.0	7.0	.0	.0	.0	.0	7.0
3-4	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.8	1.1	.0	.0	.0	5.9	.0	7.4	.0	.0	.0	.0	7.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	1.5	1.5	.0	.0	.0	.0	2.9
1-2	.0	9.6	1.1	.0	.0	.0	10.7	.0	9.9	1.8	.0	.0	.0	7.7
3-4	.0	4.4	8.1	.0	.0	.0	12.5	.0	3.7	12.9	.0	.0	.0	16.5
5-6	.0	1.5	5.5	.0	.0	.0	7.0	.0	.0	2.6	.0	.0	.0	2.6
7	.0	.0	2.9	.0	.0	.0	2.9	.0	.0	3.3	.0	.0	.0	3.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	.0	1.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	15.4	17.6	.0	.0	.0	33.1	1.5	11.0	22.1	.0	.0	.0	34.6

PERIOD: (OVER-ALL) 1963-1967

SEPTEMBER

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	1.1	.0	.0	.0	.0	.0	1.1	.4	.0	.0	.0	.0	.0	.4	.4
3-4	.0	2.2	1.1	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	3.7	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	2.2	5.9	.0	.0	.0	9.2	.4	.0	.0	.0	.0	.0	.4	.4

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	1.5	.4	.0	.0	.0	.0	.0	1.8	1.8
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.4	.0	.0	.0	.0	1.8	1.8
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	.4	.0	.0	.0	.4	.4	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.0	1.1	.0	.0	.0	1.1	1.5	1.8	.7	.0	.0	.0	4.0	4.0	95.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	7.2	2.9	.0	.0	.0	.0	10.1	
1-2	2.9	26.1	2.9	.0	.0	.0	31.9	
3-4	.0	11.6	23.2	.0	.0	.0	34.8	
5-6	.0	1.4	13.0	.0	.0	.0	14.5	
7	.0	.0	7.2	.0	.0	.0	7.2	
8-9	.0	.0	1.4	.0	.0	.0	1.4	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.1	42.0	47.8	.0	.0	.0	100.0	69

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.6	31.5	24.7	10.1	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	3
6-7	.0	.0	3.4	5.6	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
10-11	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	2
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	6.7	1.1	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	1
TOTAL	11	31	26	14	6	1	0	0	0	0	0	0	0	0	0	0	0	0	0	89	3
PCT	12.4	34.8	29.2	15.7	6.7	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1922-1969
(OVER-ALL) 1883-1969

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19.05 148.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	3.3	1.7	.0	.0	.0	.0	.0	5.0	.0	5.0	1.7	.0	.8	.0	90.8
NE	.0	1.7	.0	.0	.0	.0	.0	1.7	.0	.0	.9	.0	3.1	.0	92.3
E	.0	1.5	.0	.0	.0	.0	.0	1.5	1.5	.7	2.6	.0	3.1	.0	90.7
SE	3.7	2.5	1.2	.0	.0	.0	.0	7.4	2.5	.0	4.9	.0	.9	.0	84.3
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.8	.0	.0	.0	85.2
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20.0	.0	.0	.0	80.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	2.6	2.6	.0	.0	.0	.0	.0	5.2	.0	.0	2.6	.0	1.3	.0	91.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	.0	90.9
TOT PCT	1.5	1.7	.2	.0	.0	.0	.0	3.5	1.0	1.0	3.0	.0	2.5	.0	89.5
TOT OBS:	401														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	2.3	1.1	.0	.0	.0	.0	.0	3.4	2.3	1.1	3.7	.0	2.3	.0	86.4
06009	.8	.0	.0	.0	.0	.0	.0	.8	.0	.8	3.3	.0	3.3	.0	91.8
12015	2.4	2.4	.0	.0	.0	.0	.0	4.8	.0	.0	1.2	.0	2.4	.0	91.7
18021	.8	3.1	.8	.0	.0	.0	.0	4.7	1.6	1.6	3.1	.0	1.6	.0	88.3
TOT PCT	1.4	1.7	.2	.0	.0	.0	.0	3.3	.9	.9	3.3	.0	2.4	.0	89.6
TOT OBS:	422														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	3.4	9.8	.6	.0	.0	.0		13.7	5.7	7.1	17.5	16.2	16.2	10.3	13.5	11.6	12.2	
NE	3.5	10.7	1.3	.1	.0	.0		15.6	6.1	19.2	9.2	23.5	18.3	16.9	11.5	15.6	10.8	
E	3.8	20.7	9.0	.5	.0	.0		34.0	8.6	30.8	29.3	28.4	36.6	47.8	43.9	31.9	33.1	
SE	.8	10.2	9.2	1.3	.0	.0		21.5	11.5	32.7	27.6	21.1	17.6	22.1	16.2	19.6	20.3	
S	.2	.8	.7	.0	.0	.0		1.6	9.5	2.6	.0	.7	.0	.0	.7	3.6	4.7	
SW	.3	.5	.2	.0	.0	.0		1.0	6.6	.0	1.1	.0	.0	.0	1.4	2.7	1.4	
W	.3	.4	.0	.0	.0	.0		.8	4.5	2.6	.6	.0	.0	.0	1.4	.9	1.4	
NW	2.6	5.7	.5	.0	.0	.0		8.8	5.4	2.6	12.4	7.1	7.0	.0	8.8	9.6	14.9	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.0							3.0	.0	2.6	2.3	2.9	4.2	2.9	2.7	4.5	1.4	
TOT OBS	107	348	127	11	0	0	593		7.9	39	87	102	71	34	74	112	74	
TOT PCT	18.0	58.7	21.4	1.9	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	00					06	12	18	21	
										00	06	12	18	21
										03	09	15	21	
N	9.1	4.6	.0	.0	.0		13.7	5.7	14.3	16.2	12.5	11.8		
NE	9.8	5.6	.1	.0	.0		15.6	6.1	12.3	21.4	13.2	13.7		
E	12.7	19.2	2.0	.1	.0		34.0	8.6	29.8	31.8	43.1	32.4		
SE	3.5	14.0	3.9	.1	.0		21.5	11.5	29.2	19.7	18.1	19.9		
S	.6	.8	.3	.0	.0		1.6	9.5	.8	.4	.5	4.0		
SW	.5	.5	.0	.0	.0		1.0	6.6	.8	.0	.9	2.2		
W	.6	.2	.0	.0	.0		.8	4.5	1.2	.0	.9	1.1		
NW	6.4	2.4	.0	.0	.0		8.8	5.4	9.3	7.1	6.0	11.7		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	3.0						3.0	.0	2.4	3.5	2.8	3.2		
TOT OBS	274	281	37	1	0	593		7.9	126	173	108	186		
TOT PCT	46.2	47.4	6.2	.2	.0		100.0		100.0	100.0	100.0	100.0		

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	2.4	16.7	57.9	21.4	1.6	.0	.0	7.8	100.0	126
06009	3.5	12.7	61.8	19.7	2.3	.0	.0	7.8	100.0	173
12015	2.8	14.6	55.6	24.1	2.8	.0	.0	8.2	100.0	108
18021	3.2	16.1	58.1	21.5	1.1	.0	.0	7.8	100.0	186
TOT	18	89	348	127	11	0	0	7.9		593
PCT	3.0	15.0	58.7	21.4	1.9	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL	MEAN CLOUD COVER
N	6.3	2.8	.0	.0		1.5
NE	11.6	5.5	2.2	.7		2.5
E	20.0	9.4	6.4	2.0		2.8
SE	13.4	6.6	3.9	2.4		3.1
S	1.3	.0	.0	.0		.5
SW	.0	.0	.0	.0		.0
W	.0	.7	.0	.0		4.0
NW	1.1	.7	.0	.0		1.8
VAR	.0	.0	.0	.0		.0
CALM	1.5	.0	1.5	.0		3.7
TOT OBS	75	35	19	7	136	2.7
TOT PCT	55.1	25.7	14.0	5.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.0
NE	.0	.0	.0	.7	.7	.0	.0	.0	.0	.0	.0	18.6
E	.0	.0	.0	1.5	1.3	2.0	.7	.0	.0	.0	.0	32.4
SE	.0	.0	.7	.7	2.4	1.7	.0	.0	.0	.0	.0	20.8
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	2.2
TOT OBS	75	35	19	7	136	2.7						136
TOT PCT	55.1	25.7	14.0	5.1	100.0							100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	.7	.7	.7	.7	.7	.7	.7	.7
= OR >2000	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
= OR >1000	9.5	9.5	9.5	9.5	9.5	9.5	9.5	9.5
= OR >600	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4
= OR >300	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
= OR >150	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
= OR >0	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
TOTAL	10	10	10	10	10	10	10	10

TOTAL NUMBER OF OBS: 137

PCT FREQ NH <5/8: 86.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
15.0	30.7	21.4	11.4	7.9	2.9	4.3	4.3	2.1	.0	140

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.2	.1	.4	1.0	.2	.2	.0	.2	.0	.0	2.5	
	TOT %	.2	.1	.4	1.0	.2	.2	.0	.2	.0	.0	2.5	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.2	.6	.1	.0	.0	.0	.1	.0	.2	1.5	
	TOT %	.1	.2	.6	.1	.0	.0	.0	.1	.0	.2	1.5	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.5	.2	.5	.5	.0	.0	.0	.5	.0	.0	2.2	
	NO PCP	9.9	6.1	14.8	7.1	1.0	1.0	.5	6.2	.0	1.5	48.1	
	TOT %	10.3	6.4	15.3	7.6	1.0	1.0	.5	6.7	.0	1.5	50.4	
10+	PCP	.2	.0	.0	1.0	.0	.0	.0	.0	.0	.0	1.2	
	NO PCP	4.0	7.9	17.8	10.5	.4	.0	.2	2.6	.0	1.0	44.4	
	TOT %	4.2	7.9	17.8	11.5	.4	.0	.2	2.6	.0	1.0	45.6	
TOT OBS													
TOT PCT													
		15.0	14.7	34.1	20.2	1.7	1.2	.7	9.7	.0	2.7	100.0	401

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	4-10	.2	.1	.3	.8	.2	.2	.0	.0	.0	.0	1.8	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.1	.3	.8	.2	.2	.0	.2	.0	.0	2.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	
	4-10	.1	.2	.3	.1	.0	.0	.0	.1	.0	.0	.8	
	11-21	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.2	.5	.1	.0	.0	.0	.1	.0	.2	1.2	
2<5	0-3	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	4-10	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.4	
5<10	0-3	2.0	1.0	1.5	.2	.2	.4	.1	1.4	.0	1.2	8.0	
	4-10	5.9	3.5	7.4	2.4	.1	.2	.3	3.4	.0	.0	23.2	
	11-21	.5	.8	3.5	3.3	.5	.2	.0	.6	.0	.0	9.4	
	22+	.0	.1	.5	.8	.0	.0	.0	.0	.0	.0	1.4	
	TOT %	8.4	5.4	12.9	6.7	.8	.8	.4	5.4	.0	1.2	42.1	
10+	0-3	1.4	1.9	1.5	.3	.0	.0	.3	1.0	.0	1.4	7.8	
	4-10	4.2	6.5	13.0	6.7	.6	.0	.2	3.2	.0	.0	34.3	
	11-21	.2	.4	4.9	5.9	.2	.0	.0	.0	.0	.0	11.6	
	22+	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	
	TOT %	5.8	8.8	19.4	13.5	.8	.0	.5	4.2	.0	1.4	54.3	
TOT OBS													
TOT PCT													
		14.5	14.5	33.4	21.2	1.8	1.0	.9	9.9	.0	2.8	100.0	499

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	2.8	2.8	2.8	5.6	.0	.0	.0	.0	13.9	86.1	36
06009	.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	2.8	97.2	36
12015	.0	.0	.0	6.1	6.1	.0	.0	.0	.0	.0	12.1	87.9	33
18021	.0	.0	.0	2.9	8.8	8.8	2.9	.0	.0	.0	23.5	76.5	34
TOT	0	0	1	4	6	6	1	0	0	0	18	121	139
PCT	.0	.0	.7	2.9	4.3	4.3	.7	.0	.0	.0	12.9	87.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	4.6	.9	.0	36.7	57.8	109
06009	.0	2.7	2.0	.7	46.0	48.7	150
12015	.0	.0	1.0	.0	37.5	61.5	96
18021	.0	1.8	.6	.6	49.7	47.3	165
TOT	0	12	6	2	227	273	520
PCT	.0	2.3	1.2	.4	43.7	52.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<150 450YD	<600 1/2	<1000 1/2	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	2.9	5.7	8.6	85.7	35
06009	.0	.0	.0	2.9	97.1	35
12015	.0	.0	6.1	6.1	87.9	33
18021	.0	.0	2.9	20.6	76.5	34
TOT	0	1	5	13	119	137
PCT	.0	.7	3.6	9.5	86.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.0	.0	.0	.7	2	.7
80/84	.0	.0	.0	.7	4.6	1.8	1.1	2.8	91	11.0
75/79	.0	.0	.7	1.8	13.5	24.9	15.3	6.8	177	63.0
70/74	.0	.0	.0	.4	4.6	10.0	7.8	2.1	70	24.9
65/69	.0	.0	.0	.0	.0	.4	.0	.0	1	.4
TOTAL	0	0	2	8	64	104	68	35	281	100.0
PCT	.0	.0	.7	2.8	22.8	37.0	24.2	12.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.3	.4	.0	.0	.0	.0	.0	.1	.0	.0
80/84	2.0	2.2	3.0	1.2	.0	.0	.4	2.0	.0	.4
75/79	9.9	8.6	22.9	11.9	1.2	.4	.5	4.8	.0	2.8
70/74	3.5	4.4	9.4	5.7	.2	.0	.0	1.4	.0	.4
65/69	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0
TOTAL	15.6	15.6	35.3	19.1	1.3	.4	.9	8.3	.0	3.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	87	85	83	77	73	72	72	77.8	130
06009	84	83	82	77	73	71	70	77.0	175
12015	80	79	79	75	71	70	70	75.0	110
18021	88	81	79	75	71	59	68	75.0	190
TOT	88	84	81	76	72	70	68	76.1	605

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	4.8	37.1	30.6	17.7	9.7	73			62
06009	.0	7.2	26.5	41.0	19.3	12.0	74			83
12015	.0	3.3	14.8	41.0	34.4	6.6	77			61
18021	.0	.0	19.8	34.1	27.5	18.7	78			91
TOT	0	11	72	109	68	37	76			297

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	NO FOG
9/10	.0	.0	.0	.3	.0	1	.0	.3
7/8	.0	.0	.9	.3	.0	4	.0	1.2
6	.0	.3	.6	.6	.0	5	.3	1.2
5	.0	.3	1.9	1.5	.3	13	.0	4.0
4	.0	.9	3.1	1.5	.0	18	.3	5.2
3	.0	1.5	4.6	.9	.0	23	.3	6.8
2	.0	4.0	6.8	.6	.3	38	.3	11.4
1	.6	8.0	6.5	.9	.0	52	.6	13.4
0	1.9	9.3	8.0	.9	.0	65	.9	19.1
-1	1.9	11.1	3.1	.3	.0	53	.0	16.4
-2	.9	6.2	1.9	.3	.0	30	.9	8.3
-3	.6	1.9	.6	.0	.0	10	.3	2.8
-4	.3	1.2	.9	.0	.0	8	.0	2.5
-5	.6	.3	.0	.0	.0	3	.0	.9
-6	.3	.0	.0	.0	.0	1	.0	.3
TOTAL	23	126	27	2		324	13	311
PCT	7.1	45.1	38.9	8.3	.6	100.0	4.0	96.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.3	.0	.0	.0	.0	.0	1.3	1.3	5.1	.0	.0	.0	.0	.0	6.4
1-2	2.6	1.9	.0	.0	.0	.0	.0	4.5	.0	11.2	.0	.0	.0	.0	.0	11.2
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.9	.0	.0	.0	.0	.0	3.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.6	3.2	.0	.0	.0	.0	.0	5.8	2.6	18.3	.0	.0	.0	.0	.0	20.8

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.3	1.3	.0	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	24.0	.0	.0	.0	.0	.0	24.0	.0	14.1	1.3	.0	.0	.0	.0	15.4
3-4	.0	5.4	4.2	.0	.0	.0	.0	9.6	.0	5.8	1.0	.0	.0	.0	.0	6.7
5-6	.0	1.3	.0	.0	.0	.0	.0	1.3	.0	.0	2.6	.0	.0	.0	.0	2.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	1.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	32.1	4.2	.0	.0	.0	.0	37.5	.0	19.9	4.8	1.3	.0	.0	.0	26.0

PERIOD: (OVER-ALL) 1963-1969

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	1.0	1.3	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.0	1.3	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.3	.0
1-2	1.3	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	1.3	94.9
TOT PCT	1.3	.0	.0	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	.0	.0	1.3	94.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	8.8	8.8	.0	.0	.0	.0	17.5	
1-2	5.0	50.0	1.3	.0	.0	.0	56.3	
3-4	1.3	13.8	6.3	.0	.0	.0	21.3	
5-6	.0	1.3	2.5	.0	.0	.0	3.8	
7	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.3	.0	.0	1.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	15.0	73.8	10.0	1.3	.0	.0	100.0	80

PERIOD: (OVER-ALL) 1950-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	15.2	39.0	18.1	2.9	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	80	2
6-7	.0	.0	3.8	6.7	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	5
9-9	.0	.0	1.9	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	5.7	1.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	105	1
TOTAL	22	42	28	10	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	100.0	2
PCT	21.0	40.0	25.7	9.5	1.9	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1884-1969

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.8	2.0	.0	.0	.0	.0	.0	2.8	.0	3.2	.8	.0	9.3	.0	83.8
NE	.6	.3	.6	.0	.0	.0	.0	1.6	1.3	1.3	2.5	.0	4.1	.0	89.3
E	1.5	1.5	.4	.0	.0	.0	.0	3.4	.0	3.8	1.1	.0	1.9	.0	91.3
SE	3.7	3.7	1.2	.0	.0	.0	.0	8.6	1.2	.0	.0	.0	6.1	.0	84.1
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	.0	87.5
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30.8	.0	38.5	.0	30.8
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	1.7	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	5.0	.0	93.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.5	1.8	.5	.0	.0	.0	.0	3.8	.5	2.0	1.3	.0	5.0	.0	87.9
TOT DBS:	397														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	1.3	.0	.0	.0	.0	.0	.0	1.3	.0	.0	1.3	.0	5.3	.0	92.0
06009	2.4	1.6	.0	.0	.0	.0	.0	4.0	1.6	.8	1.6	.0	6.5	.0	86.3
12015	2.2	2.2	.0	.0	.0	.0	.0	4.5	.0	5.6	1.1	.0	1.1	.0	88.8
18021	1.7	2.5	1.7	.0	.0	.0	.0	5.9	.0	1.7	1.7	.0	5.9	.0	84.9
TOT PCT TOT DBS:	2.0 407	1.7	.5	.0	.0	.0	.0	4.2	.5	2.0	1.5	.0	4.9	.0	87.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)						48+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.9	11.0	3.6	.4	.0	.0		15.8	8.7	15.2	13.5	22.3	15.8	22.0	11.1	15.3	10.4
NE	2.6	14.9	1.1	.1	.0	.0		18.7	6.8	13.0	18.1	19.8	21.7	22.6	22.9	19.1	10.4
E	1.9	17.9	11.8	.7	.0	.0		32.4	10.4	22.3	28.5	32.2	37.5	36.6	33.3	31.4	35.8
SE	.7	8.2	12.6	.7	.0	.0		22.3	12.6	25.0	26.9	22.8	23.0	16.5	16.0	18.3	30.6
S	.1	1.0	.5	.0	.0	.0		1.6	9.1	3.8	2.3	.0	.0	1.8	1.4	2.5	2.2
SW	.2	.2	.2	.0	.0	.0		.6	6.4	2.2	.0	.0	.0	.0	.0	1.2	1.5
W	.0	.2	.0	.0	.0	.0		.2	5.0	1.6	.0	.0	.0	.0	.0	.0	.7
NW	.8	4.6	1.5	.2	.0	.0		7.1	8.9	14.7	6.2	3.0	2.0	.6	13.9	10.1	6.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0	2.2	4.6	.0	.0	.0	1.4	2.0	1.5
TOT DBS	49	330	178	12	0	0	569		9.6	46	65	101	76	41	72	101	67
TOT PCT	8.6	58.0	31.3	2.1	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	6.2	8.7	.6	.2	.0		15.8	8.7	14.2	19.5	15.0	13.4
NE	10.0	8.3	.4	.0	.0		18.7	6.8	16.0	20.6	22.8	15.6
E	8.1	18.9	.4	.0	.0		32.4	10.4	25.9	34.5	34.5	33.2
SE	2.8	12.9	.6	.0	.0		22.3	12.6	26.1	22.9	16.2	23.2
S	.6	.8	.2	.0	.0		1.6	9.1	2.9	.0	1.5	2.4
SW	.4	.2	.0	.0	.0		.6	6.4	.9	.0	.0	1.3
W	.2	.0	.0	.0	.0		.2	5.0	.7	.0	.0	.3
NW	2.5	3.9	.7	.0	.0		7.1	8.9	9.7	2.5	9.1	8.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	3.6	.0	.9	1.8
TOT DBS	183	306	79	1	0	569		9.6	111	177	113	168
TOT PCT	32.2	53.8	13.9	.2	.0		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND DIR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	3.6	9.0	54.1	32.4	.9	.0	.0	9.2	100.0	111
06009	.0	6.2	54.8	35.6	3.4	.0	.0	10.4	100.0	177
12015	.9	7.1	56.6	32.7	2.7	.0	.0	9.7	100.0	113
18021	1.8	7.1	64.9	25.0	1.2	.0	.0	9.0	100.0	168
TOT	.8	4.1	53.0	17.8	1.2	.0	.0	9.6		569
PCT	1.4	7.2	58.0	31.3	2.1	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	8.9	7.4	4.7	.7		3.3
NE	11.9	4.5	3.2	.0		2.2
E	14.4	6.2	3.0	.0		2.3
SE	7.7	7.9	4.4	2.0		3.5
S	2.2	.0	.0	.0		1.1
SW	.8	.0	.0	.0		.4
W	.5	.0	.0	.0		1.0
NW	3.2	2.9	1.5	.7		3.2
VAR	.0	.0	.0	.0		.0
CALM	1.3	.0	.0	.0		1.0
TOT OBS	76	43	25	5	149	2.8
TOT PCT	51.0	28.9	16.8	3.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL
149	299	599	999	1999	3499	4999	6499	7999			OBS
.0	.0	.0	3.0	1.2	.0	.0	.0	.0	.0	17.4	
.0	.0	.0	.3	.8	.0	.0	.0	.0	.0	18.5	
.0	.0	.7	.0	.0	.0	.3	.0	.0	.0	22.7	
.0	.0	.0	.0	2.7	.7	.0	.3	.0	.0	18.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	
.0	.0	.0	.7	.0	.7	.0	.0	.0	.0	6.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
.0	.0	1	6	7	2	0	1	0	0	132	149
.0	.0	.7	4.0	4.7	1.3	.0	.7	.0	.0	88.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
OR >5000	.7	.7	.7	.7	.7	.7	.7	.7
OR >3500	.7	.7	.7	.7	.7	.7	.7	.7
OR >2000	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
OR >1000	6.0	6.0	6.6	6.6	6.6	6.6	6.6	6.6
OR >600	8.6	9.9	10.6	10.6	10.6	10.6	10.6	10.6
OR >300	9.3	10.6	11.3	11.3	11.3	11.3	11.3	11.3
OR >150	9.3	10.6	11.3	11.3	11.3	11.3	11.3	11.3
OR >0	9.3	10.6	11.3	11.3	11.3	11.3	11.3	11.3
TOTAL	14	16	17	17	17	17	17	17

TOTAL NUMBER OF OBS: 151

PCT FREQ NH <5/8: 88.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
15.2	25.0	21.3	18.9	8.5	3.0	3.0	3.0	1.8	.0	164

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.4	.0	.0	.0	.3	.0	.0	.0	.0	.0	.8
	TOT %	.1	.4	.0	.0	.0	.3	.0	.0	.0	.0	.0	.8
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.3	.1	.1	1.0	.0	.0	.0	.0	.0	.0	.0	1.5
	TOT %	.3	.1	.1	1.0	.0	.0	.0	.0	.0	.0	.0	1.5
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.1	.6	.3	.0	.0	.0	.0	.0	.0	.0	1.0
	TOT %	.0	.1	.6	.3	.0	.0	.0	.0	.0	.0	.0	1.0
5<10	PCP	.3	.3	1.1	1.5	.0	.0	.0	.1	.0	.0	.0	3.3
	NO PCP	5.9	9.2	15.9	8.6	.5	.3	.0	4.4	.0	.3	.3	45.1
	TOT %	6.1	9.5	17.1	10.1	.5	.3	.0	4.5	.0	.3	.3	48.4
10+	PCP	.2	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.5
	NO PCP	8.9	9.9	15.1	8.9	1.0	.3	.2	3.0	.0	.5	.5	47.8
	TOT %	9.1	9.9	15.1	9.2	1.0	.3	.2	3.0	.0	.5	.5	48.4
TOT OBS													395
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2
	4-10	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.6
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.4
	11-21	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.8
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.1	.1	.8	.0	.0	.0	.0	.0	.0	.0	1.3
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	.6
	11-21	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.8
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.9	.4	.0	.0	.0	.0	.0	.0	.0	1.5
5<10	0-3	.0	1.7	.5	.1	.0	.0	.0	.6	.0	.4	.4	3.4
	4-10	3.3	5.5	7.8	4.4	.0	.2	.0	2.3	.0	.0	.0	23.6
	11-21	1.8	.6	5.8	4.1	.4	.0	.0	1.0	.0	.0	.0	13.7
	22+	.4	.1	.3	.4	.0	.0	.0	.2	.0	.0	.0	1.5
	TOT %	5.5	7.9	14.5	9.1	.4	.2	.0	4.2	.0	.4	.4	42.2
10+	0-3	.5	.3	.9	.1	.1	.0	.0	.1	.0	1.1	.0	3.2
	4-10	6.7	9.5	10.1	3.5	1.0	.1	.3	2.1	.0	.0	.0	33.3
	11-21	1.0	.5	7.1	7.8	.2	.2	.0	.5	.0	.0	.0	17.3
	22+	.0	.0	.3	.4	.0	.0	.0	.0	.0	.0	.0	.6
	TOT %	8.2	10.4	18.5	11.8	1.3	.3	.3	2.7	.0	1.1	1.1	54.4
TOT OBS													474
TOT PCT													100.0

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL DBS	NM <5/8 ANY HGT	TOTAL DBS
00003	.0	.0	.0	4.3	2.1	2.1	.0	2.1	.0	.0	10.6	89.4	47
06009	.0	.0	2.6	.0	7.7	.0	.0	.0	.0	.0	10.3	89.7	39
12015	.0	.0	.0	2.5	5.0	2.5	.0	.0	.0	.0	10.0	90.0	40
18021	.0	.0	.0	8.1	2.7	.0	.0	.0	.0	.0	10.8	89.2	37
TOT	0	0	1	6	7	2	0	1	0	0	17	146	163
PCT	.0	.0	.6	3.7	4.3	1.2	.0	.6	.0	.0	10.4	89.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	.0	1.1	.0	2.2	30.0	66.7	90
06009	.0	1.3	2.0	1.3	42.4	53.0	151
12015	.0	.0	.0	1.0	40.2	58.8	97
18021	.0	.7	2.1	1.4	52.1	43.8	146
TOT	0	4	6	7	206	261	484
PCT	.0	.8	1.2	1.4	42.6	53.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGFS OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL DBS
00003	.0	.0	6.7	4.4	88.9	43
06009	.0	2.8	2.8	8.3	88.9	36
12015	.0	.0	2.7	8.1	89.2	37
18021	.0	.0	9.1	3.0	87.9	33
TOT	0	1	8	9	134	151
PCT	.0	.7	3.3	6.0	88.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
90/94	.0	.0	.0	.3	.0	.0	.0	.0	1	.3
85/89	.0	.0	.3	.3	.3	1.0	.0	.0	6	2.1
80/84	.0	.0	.0	1.0	6.9	8.0	7.3	2.1	73	25.3
75/79	.0	.0	.0	.3	5.2	32.9	22.5	4.5	189	65.4
70/74	.0	.0	.0	.0	1.0	3.5	2.1	.3	20	6.9
TOTAL	0	0	1	6	39	131	92	20	289	100.0
PCT	.0	.0	.3	2.1	13.5	45.3	31.8	6.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0
85	.0	.3	1.1	.0	.0	.3	.3	.1	.0	.0
80	7.6	5.5	5.9	3.1	.3	.0	.0	2.8	.0	.0
75	7.9	13.7	22.2	13.9	1.2	.1	.0	5.4	.0	1.0
70	.7	1.6	2.1	1.8	.3	.0	.0	.5	.0	.0
TOTAL	16.2	21.0	31.3	19.2	1.8	.4	.3	8.7	.0	1.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	91	90	85	79	75	69	69	79.8	110
06009	86	85	83	79	74	73	73	78.9	174
12015	81	80	80	77	74	73	73	77.3	113
18021	83	82	81	77	74	73	73	77.2	172
TOT	91	86	83	78	74	73	69	78.2	569

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	5.2	25.9	44.8	20.7	3.4	73	58		
06009	.0	5.4	16.1	41.9	26.9	9.7	77	93		
12015	.0	.0	6.6	49.2	34.4	9.8	80	61		
18021	.0	.0	8.3	44.0	42.9	4.8	79	84		
TOT	0	8	41	132	94	21	77	296		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.0	.3	1	.0	.3
9/10	.0	.0	.0	.0	.3	1	.0	.3
7/8	.0	.0	.3	.0	.0	1	.0	.3
5	.0	1.3	.3	.6	.0	7	.0	2.2
4	.0	1.0	2.2	.6	.0	12	.0	3.8
3	1.0	.6	2.9	.3	.0	15	.0	4.4
2	.3	5.7	3.2	.3	.0	30	.0	9.1
1	3.2	9.9	3.2	.0	.0	31	.6	15.6
0	2.9	14.3	3.5	.0	.0	65	.6	20.1
-1	5.7	10.8	1.3	.0	.0	56	.3	17.5
-2	6.4	8.0	.0	.0	.0	45	.0	14.3
-3	1.0	2.9	.3	.0	.0	13	.0	4.1
-4	1.6	1.3	.0	.0	.0	9	.0	2.9
-5	1.0	.6	.0	.0	.0	5	.0	1.6
-6	.0	.3	.0	.0	.0	1	.0	.3
-7/-8	.0	.3	.0	.0	.0	1	.0	.3
-9/-10	.3	.0	.0	.0	.0	1	.0	.3
TOTAL	73	54	6	2		314	5	309
PCT	23.2	57.0	17.2	1.9	.6	100.0	1.6	98.4

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	2.4	.0	.0	.0	.0	3.6	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	9.2	.0	.0	.0	.0	9.2	.0	17.0	.0	.0	.0	.0	17.0
3-4	.0	1.2	1.8	.0	.0	.0	3.0	.0	2.7	.6	.0	.0	.0	3.3
5-6	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	12.8	3.0	.0	.0	.0	17.0	.0	22.0	.6	.0	.0	.0	22.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	1.2	.0	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0
1-2	.0	12.2	1.2	.0	.0	.0	13.4	.0	4.5	.0	.0	.0	.0	4.5
3-4	.0	2.1	6.3	.0	.0	.0	8.3	.0	.0	11.6	.0	.0	.0	11.6
5-6	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	2.7	.0	.0	.0	2.7
7	.0	1.2	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	1.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	16.7	9.3	.0	.0	.0	27.4	.0	4.5	13.5	.0	.0	.0	19.9

PERIOD: (OVER-ALL) 1963-1969

NOVEMBER
TABLE 18 (CONT)AREA 0003 CUMBERLAND ISLANDS
19.85 148.3E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	.3	.0	.0	.0	.0	.3	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	
TOT PCT	.0	.9	.9	.0	.0	.0	1.8	.0	.3	.0	.0	.0	.0	.3	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.9	.0	.0	.0	.0	.9	.0	2.7	.0	.0	.0	.0	2.7	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.2	2.7	.0	.0	.0	3.9	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.0	1.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	5.1	2.7	.0	.0	.0	7.7	97.6
TOT PCT	.0	.9	.0	.0	.0	.0	.9	.0	5.1	2.7	.0	.0	.0	7.7	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.8	5.8	.0	.0	.0	.0	11.6	
1-2	.0	46.5	1.2	.0	.0	.0	47.7	
3-4	.0	7.0	23.3	.0	.0	.0	30.2	
5-6	.0	1.2	5.8	.0	.0	.0	7.0	
7	.0	1.2	.0	.0	.0	.0	1.2	
8-9	.0	1.2	.0	.0	.0	.0	1.2	
10-11	.0	.0	1.2	.0	.0	.0	1.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.8	62.8	31.4	.0	.0	.0	100.0	86

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	5.3	38.6	22.8	4.4	1.8	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	3
6-7	.0	.9	3.5	3.5	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	5
8-9	.0	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	
INDET	2.6	5.3	2.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	114	2
TOTAL	9	51	33	10	9	1	1	0	0	0	0	0	0	0	0	0	0	0	0	100.0	3
PCT	7.9	44.7	28.9	8.8	7.9	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1880-1969

DECEMBER

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19.75 148.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	4.5	.0	.0	.0	.0	.0	4.5	1.3	6.3	6.3	.0	.0	.0	80.7
NE	1.5	5.4	.0	.0	.0	.0	.0	6.9	3.5	1.5	2.3	.0	.0	.0	85.8
E	1.6	5.7	1.6	.0	.0	.0	.0	8.9	2.0	2.4	4.5	.0	.0	.0	81.3
SE	4.0	5.3	1.3	.0	.0	.0	.0	10.7	.7	2.7	2.0	.0	.0	.0	85.3
S	.0	37.8	.0	.0	.0	.0	.0	37.8	.0	.0	8.9	.0	.0	.0	53.3
SW	.0	14.3	.0	.0	.0	.0	.0	14.3	.0	.0	19.0	.0	.0	.0	66.7
W	18.2	.0	.0	.0	.0	.0	.0	18.2	.0	.0	.0	.0	.0	.0	81.8
NW	2.3	4.7	.0	.0	.0	.0	.0	7.0	2.3	1.2	2.3	.0	5.8	.0	81.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	.0	75.0
TOT PCT	2.1	6.2	.8	.0	.0	.0	.0	9.0	2.1	2.6	3.9	.0	1.0	.0	81.7
TOT OBS:	388														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.3	6.7	.0	.0	.0	.0	.0	10.0	3.3	.0	3.3	.0	1.1	.0	82.2
06009	2.6	5.2	.9	.0	.0	.0	.0	8.7	1.7	1.7	4.3	.0	.9	.0	82.6
12015	1.2	7.4	.0	.0	.0	.0	.0	8.6	.0	4.9	2.5	.0	.0	.0	84.0
18021	.9	6.4	1.8	.0	.0	.0	.0	9.2	2.8	3.7	5.5	.0	1.8	.0	78.0
TOT PCT	2.0	6.3	.8	.0	.0	.0	.0	9.1	2.0	2.5	4.1	.0	1.0	.0	81.5
TOT OBS:	395														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.3	10.3	3.1	.1	.0	.0		14.8	8.0		17.1	19.9	11.4	17.8	18.8	15.7	14.1	12.1
NE	2.4	13.5	1.8	.0	.0	.0		17.7	6.8		14.0	14.1	20.1	29.2	13.9	19.4	16.1	11.7
E	1.9	19.9	8.6	1.2	.0	.0		31.6	10.0		31.7	29.4	31.8	32.2	35.4	37.3	30.5	27.3
SE	1.4	10.2	7.1	.6	.0	.0		19.2	10.4		19.5	22.4	23.8	9.8	24.3	12.7	16.1	25.4
S	.1	1.7	.8	.0	.0	.0		2.6	9.4		.0	5.9	1.0	2.3	2.1	.0	4.0	3.8
SW	.2	1.1	.2	.0	.0	.0		1.5	6.7		2.4	.6	1.9	.8	.7	.0	.9	4.9
W	.1	1.0	.2	.0	.0	.0		1.3	7.8		2.4	1.2	.0	.8	.0	.0	3.2	3.0
NW	1.6	6.1	2.8	.1	.0	.0		10.6	8.1		12.8	10.6	8.0	7.2	4.9	14.9	14.1	10.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	.7							.7	.0		.0	.0	1.9	.0	.0	.0	1.1	1.5
TOT OBS	53	352	135	11	0	0	551		8.9		41	85	103	66	36	67	87	66
TOT PCT	9.6	63.9	24.5	2.0	.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+	00 03				06 09	12 15	18 21		
N	6.7	7.7	.5	.0	.0		14.8	8.0	16.3	13.9	16.7	13.2		
NE	9.8	7.8	.1	.0	.0		17.7	6.8	14.1	23.7	17.5	14.2		
E	7.9	19.2	4.5	.0	.0		31.6	10.0	30.2	32.0	36.7	29.1		
SE	4.6	10.9	3.5	.2	.0		19.2	10.8	21.4	18.3	16.7	20.1		
S	.7	1.7	.2	.0	.0		2.6	9.4	4.0	1.5	.7	3.9		
SW	1.0	.4	.1	.0	.0		1.5	6.7	1.2	1.5	.2	2.5		
W	.6	.6	.1	.0	.0		1.3	7.8	1.6	.3	.0	3.1		
NW	4.5	5.6	.5	.0	.0		10.6	8.1	11.3	7.7	11.4	12.6		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	.7						.7	.0	.0	1.2	.0	1.3		
TOT OBS	201	297	52	1	0	551		8.9	126	169	103	153		
TOT PCT	36.5	53.9	9.4	.2	.0		100.0		100.0	100.0	100.0	100.0		

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PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)					48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47				
00603	.0	14.5	37.1	27.0	1.6	.0	.0	8.7	100.0	126
06009	1.2	3.9	63.3	24.9	1.8	.0	.0	9.1	100.0	169
12615	.0	3.9	68.0	26.2	1.9	.0	.0	9.7	100.0	103
18621	1.3	7.8	67.3	20.9	2.6	.0	.0	8.4	100.0	153
TOT	4	49	352	135	11	0	0	8.9		591
PCT	.7	8.9	63.9	24.5	2.0	.0	.0	100.0		

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

BY WIND DIRECTION						MEAN
WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	CLOUD COVER
N	5.5	3.1	4.1	1.4		4.0
NE	4.9	2.0	4.3	1.0		3.6
E	12.2	11.2	7.9	7.3		4.1
SE	9.3	6.7	6.9	1.4		3.4
S	.0	.0	.0	.6		8.0
SW	.8	.0	.0	.2		1.6
W	.0	.0	.0	.0		.0
NW	5.1	.6	4.4	1.6		2.8
VAR	.0	.0	.0	.0		.0
CALM	.8	.8	.0	.0		1.5
TOT OBS	49	31	30	17	127	3.7
TOT PCT	38.6	24.4	23.6	13.4	100.0	

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH $\geq 4/8$)
AND OCCURRENCE OF NH $\leq 5/8$ BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH AN	<5/8 HGT	TOTAL DBS
.0	.0	.0	.0	2.0	1.4	.0	.0	.0	.0	.0	10.8	
.0	.0	.0	.0	1.0	.8				.0	.0	10.4	
.0	.0	.6	3.5	2.2	.0	.0	.0	.0	.6	.6	31.7	
.0	.0	1.0	1.2	1.0	1.6	.0	.0	.0	.2	.2	19.3	
.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.8	.8	.2	.2	.0	.0	.0	.0	.0	9.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	
.0	.0	.4	.7	.8	.5	.0	.0	.0	.0	.0	1	102
.0	.0	3.1	5.5	6.3	3.9	.0	.0	.0	.8	.8	80.3	127 100.0

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	> DR >10	> DR >5	> DR >2	> DR >1	> DR >1/2	> DR >1/4	> DR >30YD	> DR >0
> DR >6500	.8	.8	.8	.8	.8	.8	.8	.8
> DR >4000	.8	.8	.8	.8	.8	.8	.8	.8
> DR >3500	.8	.8	.8	.8	.8	.8	.8	.8
> DR >2000	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
> DR >1000	9.4	11.0	11.0	11.0	11.0	11.0	11.0	11.0
> DR >600	13.4	15.0	16.5	16.5	16.5	16.5	16.5	16.5
> DR >300	14.2	16.5	19.7	19.7	19.7	19.7	19.7	19.7
> DR >150	14.2	16.5	19.7	19.7	19.7	19.7	19.7	19.7
> DR >0	14.2	16.5	19.7	19.7	19.7	19.7	19.7	19.7
TOTAL	18	21	25	25	25	25	25	25

PCT FREQ NH 45/81 80.3

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
10.3	20.7	21.4	17.2	9.0	4.1	4.8	2.8	9.7	.0	145

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1880-1969

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.8	.3	1.4	.4	.3	.3	.0	.3	.0	.0	.0	3.6
	TOT %	.8	.3	1.4	.4	.3	.3	.0	.3	.0	.0	.0	3.6
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.1	.0	.3	.0	.0	.0	.0	.4	.0	.0	.8	
	NO PCP	.0	.0	.2	.3	.0	.0	.0	.0	.0	.0	.5	
	TOT %	.1	.0	.5	.3	.0	.0	.0	.4	.0	.0	1.3	
5<10	PCP	.5	1.2	2.1	1.8	1.1	.2	.3	.4	.0	.0	7.5	
	NO PCP	5.5	7.1	10.4	7.2	1.5	.6	.5	6.3	.0	.3	39.4	
	TOT %	6.0	8.2	12.5	9.0	2.6	.8	.8	6.6	.0	.3	46.9	
10+	PCP	.0	.0	.5	.3	.0	.0	.0	.0	.0	.0	.8	
	NO PCP	7.5	8.2	16.9	9.3	.0	.3	.6	3.8	.0	.8	47.4	
	TOT %	7.5	8.2	17.4	9.6	.0	.3	.6	3.8	.0	.8	48.2	
TOT OBS													
TOT PCT		14.4	16.8	31.8	19.3	2.9	1.4	1.4	11.1	.0	1.0	100.0	388

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.7	.0	1.0	.1	.0	.2	.0	.2	.0	.0	2.2	
	11-21	.0	.2	.3	.3	.2	.0	.0	.0	.0	.0	1.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.7	.2	1.3	.4	.2	.2	.0	.2	.0	.0	3.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
	11-21	.1	.0	.3	.2	.0	.0	.0	.1	.0	.0	.9	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.0	.3	.4	.0	.0	.0	.3	.0	.0	1.3	
5<10	0-3	.7	.7	1.3	1.4	.1	.2	.1	1.6	.0	.2	6.3	
	4-10	3.3	6.3	6.4	4.9	1.7	.5	.3	3.4	.0	.0	26.9	
	11-21	1.5	.9	3.0	1.4	.4	.0	.0	.8	.0	.0	8.0	
	22+	.1	.0	.3	.1	.0	.0	.0	.1	.0	.0	.7	
	TOT %	5.6	7.8	11.1	7.8	2.2	.7	.7	5.8	.0	.2	41.9	
10+	0-3	.7	1.4	.4	.1	.0	.0	.0	.0	.0	.0	.7	
	4-10	3.5	7.4	12.6	5.3	.0	.2	.4	1.7	.0	.0	33.2	
	11-21	1.8	.6	5.7	5.7	.2	.1	.1	1.8	.0	.0	16.1	
	22+	.0	.0	.7	.4	.0	.0	.0	.0	.0	.0	1.1	
	TOT %	8.0	9.3	19.5	11.4	.2	.3	.5	3.5	.0	.7	53.6	
TOT OBS													
TOT PCT		14.4	17.4	32.4	20.1	2.7	1.2	1.2	9.9	.0	.9	100.0	461

DECEMBER

PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1880-1969

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 6499	6500 7999	8000+	TOTAL ANY MGT	NM <5/8 OBS	TOTAL OBS
00003	.0	.0	4.8	7.1	4.8	2.4	.0	.0	.0	19.0	81.0	42
06009	.0	.0	2.6	2.6	7.9	2.6	.0	.0	.0	15.8	84.2	38
12015	.0	.0	3.1	3.1	6.3	6.3	.0	.0	.0	18.8	81.3	32
18021	.0	.0	.0	7.4	3.7	3.7	.0	.0	3.7	18.5	81.5	27
TOT	0	0	4	7	8	5	0	0	1	25	114	139
PCT	.0	.0	2.9	5.0	5.8	3.6	.0	.0	.7	18.0	82.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	2.8	.0	2.8	34.3	60.2	108
06009	.0	3.6	.0	.7	44.5	51.1	137
12015	.0	2.2	.0	2.2	38.9	56.7	90
18021	.0	4.5	.0	.0	49.6	45.9	133
TOT	0	16	0	6	199	247	468
PCT	.0	3.4	.0	1.3	42.5	52.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	9.3	13.2	7.9	78.9	38
06009	.0	2.9	5.9	11.8	82.4	34
12015	.0	3.2	6.5	12.9	80.6	31
18021	.0	.0	8.3	12.5	79.2	24
TOT	0	4	11	14	102	127
PCT	.0	3.1	8.7	11.0	80.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.4	.4	.4	.0	3	1.3
85/89	.0	.0	.0	.4	1.7	3.3	1.3	.0	16	6.7
80/84	.0	.0	.0	1.3	6.3	17.6	21.3	5.4	124	51.9
75/79	.0	.0	.0	.0	4.6	11.3	14.2	9.2	94	39.3
70/74	.0	.0	.0	.0	.0	.0	.0	.8	2	.8
TOTAL	0	0	0	4	31	78	89	37	239	100.0
PCT	.0	.0	.0	1.7	13.0	32.6	37.2	15.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.2	.3	.3	.0	.0	.0	.0	.4	.0	.0
85/89	1.2	1.3	1.4	2.4	.0	.0	.0	.5	.0	.0
80/84	9.8	8.5	15.1	8.2	.0	.4	.4	9.5	.0	.0
75/79	4.0	6.5	12.4	10.4	.5	.5	.6	3.1	.0	1.3
70/74	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0
TOTAL	15.2	16.9	29.2	20.9	.5	.9	1.5	13.6	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	88	86	82	77	75	75	81.6	125
06009	91	90	87	81	77	75	74	81.4	170
12015	85	84	83	79	77	74	74	79.6	104
18021	88	85	83	79	76	74	73	79.4	157
TOT	91	88	85	80	76	74	73	80.5	556

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	1.8	16.1	35.7	30.4	16.1	79	56
06009	.0	4.1	20.3	35.1	28.4	12.2	77	74
12015	.0	.0	7.8	33.3	47.1	11.8	81	51
18021	.0	.0	4.9	24.6	45.9	24.6	83	61
TOT	0	4	31	78	90	39	80	242

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PERIOD: (PRIMARY) 1913-1969
(OVER-ALL) 1880-1969AREA 0003 CUMBERLAND ISLANDS
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	NO FOG
9/10	.0	.0	.0	.0	.3	1	.0	.3
7/8	.0	.3	.6	.9	.3	7	.0	2.2
6	.0	.0	.3	1.6	.9	9	.3	2.5
5	.0	.0	.6	.6	.0	4	.0	1.3
4	.0	.0	2.2	1.3	.0	11	.0	3.5
3	.0	.3	2.8	1.3	.0	14	.9	3.5
2	.0	1.3	6.6	1.6	.0	30	.6	8.6
1	.6	3.0	6.0	1.3	.0	41	.9	12.0
0	.3	11.0	9.8	.3	.0	68	.6	20.8
-1	.6	12.3	4.1	.0	.0	54	.6	16.4
-2	.0	8.8	2.5	.0	.0	36	.3	11.0
-3	.3	4.1	1.3	.0	.0	18	.3	5.4
-4	.0	2.5	.3	.0	.0	9	.0	2.8
-5	.6	.9	.6	.0	.0	7	.0	2.2
-6	1.3	.6	.0	.0	.0	6	.0	1.9
-7/-8	.3	.0	.0	.0	.0	1	.0	.3
-9/-10	.3	.0	.0	.0	.0	1	.0	.3
TOTAL	14	150	120	28	5	317	15	302
PCT	4.4	47.3	37.9	8.8	1.6	100.0	4.7	95.3

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	3.4	.0	.0	.0	.0	5.4
1-2	.0	4.5	.0	.0	.0	.0	4.5	.0	6.4	.0	.0	.0	.0	6.4
3-4	.0	2.6	3.5	.0	.0	.0	6.1	.0	1.3	1.3	.0	.0	.0	2.6
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.3	3.5	.0	.0	.0	11.9	.0	13.1	1.3	.0	.0	.0	14.4

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	2.2	.0	.0	.0	.0	2.2	.0	.0	1.3	.0	.0	.0	1.3
1-2	.0	10.3	4.5	.0	.0	.0	14.7	.0	9.0	.6	.0	.0	.0	9.6
3-4	.0	5.1	10.6	.0	.0	.0	15.7	.0	.0	7.4	.0	.0	.0	7.4
5-6	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	2.9	1.3	.0	.0	4.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	1.3	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	1.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	17.6	16.0	1.3	.0	.0	34.9	.0	9.0	12.2	2.6	.0	.0	23.7

PERIOD: (OVER-ALL) 1963-1969

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S								SW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	1.0	.0	.0	.0	.0	1.0	.0	.3	.0	.0	.0	.0	.3	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.0	.0	.0	.0	.0	1.0	.0	.3	.0	.0	.0	.0	.3	

W								NW								TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT	
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	3.2	2.6	.0	.0	.0	5.8	.0	
3-4	.0	1.3	.0	.0	.0	.0	1.3	.0	.0	1.6	.0	.0	.0	1.6	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.6	.0	.0	.0	.0	2.6	.0	3.2	4.2	.0	.0	.0	7.4	96.2	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.8	10.3	1.3	.0	.0	.0	15.4	.0
1-2	.0	34.6	7.7	.0	.0	.0	42.3	.0
3-4	.0	10.3	24.4	.0	.0	.0	34.6	.0
5-6	.0	.0	3.8	1.3	.0	.0	5.1	.0
7	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	1.3	.0	.0	1.3	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	1.3	.0	.0	1.3	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	3.8	55.1	37.2	3.8	.0	.0	100.0	70

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	11.8	32.7	24.5	4.5	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	83
6-7	.0	.9	6.4	.0	1.8	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
8-9	.0	.0	1.8	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5
10-11	.0	1.8	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3
12-13	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12
INDET	3.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
TOTAL	17	39	37	6	7	1	1	1	1	0	0	0	0	0	0	0	0	0	0	110	3
PCT	15.5	35.5	33.6	5.5	6.4	.9	.9	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1889-1971
(OVER-ALL) 1863-1971

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.9	2.6	.3	.0	.0	.0	.0	3.8	.1	2.4	1.9	.0	2.2	.0	89.9
NE	2.9	4.1	.2	.0	.0	.0	.0	7.2	1.0	1.3	.9	.0	1.1	.0	88.8
E	2.1	2.8	1.0	.0	.0	.0	.0	5.9	1.2	1.0	1.8	.0	1.6	.0	88.7
SE	3.4	4.9	1.3	.0	.0	.0	.0	9.6	1.5	.6	1.4	.0	1.3	.0	86.0
S	2.0	6.2	1.3	.0	.0	.0	.0	9.5	.3	.5	3.3	.1	2.3	.0	84.0
SW	.6	5.7	.0	.0	.0	.0	.0	6.3	.0	.0	5.8	.0	7.0	.0	80.8
W	2.2	1.5	.0	.0	.0	.0	.0	3.7	.0	.0	1.3	.0	1.1	.0	94.0
NW	.7	2.2	.4	.0	.0	.0	.0	3.3	.2	1.0	1.0	.0	1.8	.0	92.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	2.1	.9	.7	.0	1.6	.0	94.7
TOT PCT	2.4	3.6	.9	.0	.0	.0	.0	6.9	1.1	1.0	1.5	*	1.7	.0	88.0
TOT OBS:	5261														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0603	2.1	3.0	.9	.0	.0	.0	.0	6.0	1.3	.2	1.4	.0	2.1	.0	89.2
0609	2.2	2.9	.8	.0	.0	.0	.0	5.8	.8	.6	1.5	.1	1.9	.0	89.5
12015	2.9	5.2	.4	.0	.0	.0	.0	8.5	.7	2.4	1.9	.0	1.0	.0	85.7
18021	2.7	4.1	1.4	.0	.0	.0	.0	8.2	1.5	.9	1.7	.0	1.5	.0	86.4
TOT PCT	2.5	3.7	.9	.0	.0	.0	.0	7.1	1.1	1.0	1.6	*	1.7	.0	87.8
TOT OBS:	5493														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	1.5	5.4	1.1	*	*	.0		8.1	6.2	6.0	8.0	8.8	9.6	7.5	8.7	8.2	5.7		
NE	2.3	7.5	1.0	.1	*	.0		10.9	6.5	8.0	9.4	11.5	16.4	11.5	13.5	7.7	6.5		
E	2.4	13.5	7.3	.7	*	.0		24.0	9.4	19.3	20.0	23.5	27.0	32.8	27.6	22.8	20.9		
SE	2.3	14.6	16.0	2.2	.1	.0		35.2	11.7	41.2	36.9	37.9	33.2	35.4	30.1	33.5	36.0		
S	1.2	4.5	3.1	.3	*	.0		9.2	9.8	13.9	11.5	6.3	5.1	6.2	6.4	10.3	14.0		
SW	.7	1.5	.7	*	.0	.0		2.9	7.1	2.4	3.7	2.1	1.4	2.0	2.1	3.4	4.6		
W	.5	.9	.1	*	.0	.0		1.6	5.7	1.9	2.3	.8	.8	.4	1.2	1.9	2.4		
NW	1.4	3.5	.9	*	.0	.0		5.8	6.4	5.5	6.3	4.9	5.1	2.5	7.5	6.2	6.8		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	2.3							2.3	.0	1.8	1.9	2.2	1.4	1.8	2.8	3.9	2.0		
TOT OBS							7685		9.3	485	1162	1249	1000	418	948	1311	1112		
TOT PCT	14.5	51.6	30.3	3.4	.2	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	4.6	3.3	.2	*	*			8.1	6.2	7.4	9.2	8.4	7.5
NE	6.5	4.1	.2	*	.0			10.9	6.5	9.1	13.7	13.0	8.3
E	7.7	13.5	2.6	.1	.0			24.0	9.4	19.7	26.1	29.2	21.9
SE	7.4	19.7	7.7	.5	*			35.2	11.7	38.1	35.9	31.7	34.6
S	3.2	4.8	1.1	.1	*			9.2	9.8	12.2	5.7	6.4	12.1
SW	1.4	1.3	.1	*	.0			2.9	7.1	3.3	1.8	2.1	4.0
W	1.0	.5	*	.0	.0			1.6	5.7	2.2	.8	1.0	2.1
NW	3.5	2.1	.2	.0	.0			5.8	6.4	6.2	5.0	5.8	6.5
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0	1.9	1.8	2.5	3.0
TOT OBS						7685		9.3		1667	2249	1366	2423
TOT PCT	37.7	49.3	12.2	.8	*		100.0		100.0	100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	1.9	15.0	49.2	30.4	3.2	.3	.0	9.2	100.0	1647
0600	1.8	12.3	51.4	30.6	3.7	.1	.0	9.5	100.0	2249
1200	2.3	8.6	52.3	32.6	3.8	.2	.0	9.8	100.0	1366
1800	3.0	12.2	52.9	28.6	3.1	.1	.0	8.9	100.0	2423
TOT								9.3		7685
PCT	2.3	12.2	51.6	30.3	3.4	.2	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	3.9	1.6	1.6	.4		2.2
NE	4.7	2.0	2.3	.5		3.1
E	11.2	5.6	5.5	2.0		3.3
SE	14.1	9.8	10.9	4.3		3.7
S	4.5	1.8	1.6	1.3		3.4
SW	1.6	.2	.4	.2		2.3
W	.6	.3	.2	.1		1.7
NW	2.6	.6	.5	.4		2.3
VAR	.0	.0	.0	.0		.0
CALM	1.9	.7	.4	.0		1.7
TOT OBS					1624	3.3
TOT PCT	45.1	22.5	23.2	9.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.3	.5	.3	.1	.0	*	.0	6.3	
NE	.0	.0	.0	.4	.6	.3	.1	.0	*	.1	8.1	
E	.0	.0	.1	.9	1.7	.8	.5	.1	.0	.2	19.8	
SE	.1	.1	.5	2.2	3.5	1.7	.5	.3	.0	.1	30.1	
S	.1	.0	.2	.3	.7	.4	.1	*	.0	.1	7.4	
SW	.0	.0	*	.1	.1	.1	.1	.1	.0	.0	1.9	
W	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	1.1	
NW	.0	.0	.1	.2	.1	.1	.0	.0	.0	.1	3.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.1	.1	.1	.0	.0	2.7	
TOT OBS												1624
TOT PCT	.2	.1	.9	4.5	7.1	3.8	1.3	.6	.1	.5	81.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.6	.6	.6	.6	.6	.6	.6	.6
>5000	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1
>3500	2.2	2.3	2.5	2.5	2.5	2.5	2.5	2.5
>2000	5.6	6.0	6.2	6.2	6.2	6.2	6.2	6.2
>1000	11.5	12.7	13.3	13.3	13.3	13.3	13.3	13.3
>600	14.5	16.8	17.8	17.8	17.8	17.8	17.8	17.8
>300	14.9	17.4	18.6	18.6	18.6	18.6	18.6	18.6
>150	14.9	17.4	18.6	18.6	18.6	18.7	18.7	18.7
>0	15.0	17.5	18.8	18.8	18.8	18.8	18.8	18.8

TOTAL NUMBER OF OBS: 1643

PCT FREQ NH <5/8: 81.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
16.8	23.0	18.5	14.0	8.1	5.7	3.7	4.2	6.1	.0	1773

PERIOD: (PRIMARY) 1889-1971
(OVER-ALL) 1863-1971

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*		
	NO PCP	.0	.0	.0	.0	*	.0	.0	*	.0	.0	*		
	TOT %	.0	.0	.0	*	*	.0	.0	*	.0	.0	*		
1/2<1	PCP	.0	.1	*	.1	*	.0	.0	.0	.0	.0	.1		
	NO PCP	.1	.2	.2	.3	.1	.1	.0	*	.0	*	1.1		
	TOT %	.1	.2	.2	.3	.1	.1	.0	*	.0	*	1.2		
1<2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1		
	NO PCP	.1	*	.2	.3	.1	.1	*	*	.0	*	.8		
	TOT %	.1	*	.2	.4	.1	.1	*	*	.0	*	.9		
2<5	PCP	*	*	.1	.1	.1	.0	.0	*	.0	.0	.3		
	NO PCP	.0	.1	.2	.3	.1	.0	.0	.0	.0	.0	.6		
	TOT %	*	.1	.3	.4	.2	.0	.0	*	.0	.0	1.0		
5<10	PCP	.2	.6	1.1	2.5	.4	.1	.1	.1	.0	.0	5.1		
	NO PCP	3.5	4.8	10.2	14.0	4.2	1.3	.8	3.3	.0	.7	42.9		
	TOT %	3.7	5.4	11.3	16.5	4.6	1.5	.9	3.5	.0	.7	48.0		
10+	PCP	.1	.1	.2	.6	.2	.0	.0	.1	.0	.0	1.3		
	NO PCP	3.9	5.3	11.7	16.9	4.1	1.4	.7	2.4	.0	1.2	47.6		
	TOT %	4.0	5.4	12.0	17.6	4.2	1.4	.7	2.4	.0	1.2	48.9		
TOT OBS														5298
TOT PCT														8.0 11.1 23.9 35.1 9.3 3.0 1.6 6.0 .0 2.0 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	11-21	.0	.0	*	*	*	.0	.0	.0	.0	.0	*	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	*	*	*	*	*	.0	*	.0	*	.1	
	4-10	.1	.1	.2	.2	.1	*	.0	*	.0	.0	.6	
	11-21	.0	.1	*	.1	*	*	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.2	.2	.3	.1	.1	.0	*	.0	*	1.0	
1<2	0-3	*	*	.0	.0	.0	*	*	*	.0	*	.1	
	4-10	.1	*	.1	.1	*	*	.0	*	.0	.0	.4	
	11-21	*	.0	.1	.2	*	*	.0	*	.0	.0	.4	
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.2	.4	.1	.1	*	*	.0	*	1.0	
2<5	0-3	.0	*	*	*	*	.0	.0	.0	.0	*	.1	
	4-10	*	.1	.2	.1	.1	.0	.0	*	.0	.0	.5	
	11-21	*	*	.1	.2	*	.0	.0	*	.0	.0	.5	
	22+	.0	.0	*	.1	*	.0	.0	.0	.0	.0	.1	
	TOT %	*	.1	.3	.5	.1	.0	.0	.1	.0	*	1.3	
5<10	0-3	.7	1.1	1.1	1.3	.7	.3	.2	.8	.0	.7	7.0	
	4-10	2.0	3.0	5.5	6.1	2.1	.7	.4	1.7	.0	.0	21.5	
	11-21	.5	.6	3.0	6.2	1.5	.4	.1	.5	.0	.0	12.6	
	22+	.1	.1	.5	1.0	.1	.0	*	*	.0	.0	1.7	
	TOT %	3.2	4.7	9.9	14.7	4.4	1.3	.8	3.0	.0	.7	42.8	
10+	0-3	.8	1.0	1.1	.9	.5	.4	.2	.6	.0	1.5	7.1	
	4-10	3.0	4.3	7.7	7.6	2.2	.7	.5	1.8	.0	.0	27.8	
	11-21	.5	.4	4.4	9.9	1.5	.3	*	.4	.0	.0	17.4	
	22+	.0	*	.2	1.0	.3	*	*	.0	.0	.0	1.5	
	TOT %	4.4	5.7	13.4	19.4	4.5	1.4	.8	2.8	.0	1.5	53.8	
TOT OBS													6406
TOT PCT													7.9 10.8 24.1 35.3 9.3 2.9 1.6 6.0 .0 2.2 100.0

PERIOD: (PRIMARY) 1889-1971
(OVER-ALL) 1863-1971

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL DBS	NH <5/8 ANY HGT	TOTAL DBS
00003	.5	.0	1.0	3.6	8.6	3.9	1.6	.6	.2	.2	20.2	79.8	485
06009	.0	.0	1.4	3.1	5.3	3.1	.8	.5	.0	.2	14.4	85.6	450
12015	.0	.2	.5	4.5	6.3	3.7	1.5	.3	.0	.2	17.1	82.9	405
18021	.0	.0	.3	6.0	6.7	3.4	1.2	.6	.0	1.6	19.8	80.2	393
TOT PCT	.2	.1	.8	4.2	6.7	3.6	1.2	.5	*	.5	17.8	82.2	1733 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	.0	1.1	1.1	1.0	33.4	63.4	1408
06009	*	1.2	.9	1.9	47.6	48.2	1927
12015	.3	.7	1.2	1.3	41.9	54.6	1202
18021	*	1.2	.9	.8	48.4	48.6	2105
TOT PCT	.1	1.1	1.0	1.2	43.8	52.8	6642 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL DBS
00003	.5	1.6	5.8	15.2	78.9	465
06009	.0	1.4	5.8	9.8	84.4	423
12015	.0	.8	6.2	11.7	82.1	388
18021	.0	.3	6.7	14.5	78.8	367
TOT PCT	.2	1.1	6.2	12.7	81.1	1643 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
90/94	.0	.0	.0	.2	.3	.1	*	.0	.5	
85/89	.0	*	.1	.3	1.0	1.3	.8	.5	4.0	
80/84	.0	.0	.1	.6	4.4	9.1	8.7	2.9	26.3	
75/79	.0	*	.2	1.0	4.1	12.3	9.0	5.3	32.0	
70/74	.0	*	.4	.9	3.8	6.7	7.5	4.1	23.5	
65/69	.0	.0	.5	1.1	1.8	2.6	3.5	2.1	11.6	
60/64	.0	.0	.1	.3	.4	.3	.4	.4	1.8	
55/59	.0	.0	.0	*	.1	*	.1	.0	.2	
TOTAL PCT	.0	.1	1.4	4.4	16.3	32.5	30.0	15.2	3710	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.1	.1	*	*	*	.1	.0	.0
.6	.4	.8	1.1	.3	.2	.1	.4	.0	.1
3.4	3.7	6.8	7.4	1.1	.3	.5	2.5	.0	.5
2.7	4.1	8.7	11.1	1.8	.5	.3	1.9	.0	.9
1.4	1.9	5.3	9.8	2.3	.7	.4	1.1	.0	.6
.2	.4	1.1	5.2	3.1	.8	.2	.3	.0	.3
*	.0	.1	.5	.7	.3	.1	*	.0	*
.0	.0	*	*	.1	.1	*	.0	.0	.0
8.4	10.5	22.9	33.3	9.4	2.9	1.7	6.2	.0	2.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	92	87	83	77	72	69	55	76.8	1628
06009	92	85	82	77	72	70	58	76.4	2274
12015	88	80	79	75	71	69	59	74.7	1343
18021	94	82	79	75	70	67	56	74.1	2469
TOT	94	85	81	76	71	69	55	75.4	7764

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	7.9	20.7	33.0	26.0	12.4	76	847		
06009	.0	8.3	21.1	34.3	23.4	12.9	75	1128		
12015	.0	5.1	11.2	33.3	34.0	16.4	79	707		
18021	.0	3.4	11.7	29.0	36.4	19.5	80	1162		
TOT	0	259	629	1214	1142	600	77	3844		

PERIOD: (PRIMARY) 1989-1971
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	>92	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	*	*	*	*	*	7	.0	.2
9/10	.0	.0	.0	.0	*	*	.1	.1	.1	.0	11	.0	.3
7/8	.0	.0	.0	*	*	.4	.3	.2	.2	.0	45	.0	1.2
6	.0	.0	.0	.0	.1	.2	.2	.2	.2	.0	36	.1	.9
5	.0	.0	*	*	.4	.6	.5	.3	.0	.0	74	.0	1.8
4	.0	.0	.0	.1	.9	.7	1.2	.6	.1	.0	142	*	3.6
3	.0	.0	.1	.4	1.2	1.1	1.3	.7	.0	.0	199	.1	4.8
2	.0	.0	.1	1.5	1.7	2.5	2.3	.4	.0	.0	351	.3	8.3
1	.0	.0	.4	2.1	3.0	3.6	3.9	.3	.0	.0	533	.4	12.9
0	.0	.1	.5	3.6	3.7	5.9	4.5	.2	.0	.0	744	.5	18.0
-1	.0	*	1.0	3.0	4.3	5.5	2.3	*	.0	.0	650	.1	15.9
-2	.0	.1	1.8	2.7	2.8	4.1	1.5	*	.0	.0	531	.3	12.7
-3	.0	.1	1.0	1.6	1.5	2.3	.5	.1	.0	.0	291	.1	7.0
-4	.0	.2	.9	1.1	1.0	1.5	.3	.0	.0	.0	204	.1	4.8
-5	.0	.3	.7	.7	.5	.5	.1	.0	.0	.0	128	.0	2.9
-6	.0	.1	.7	.2	.3	.3	.0	.0	.0	.0	68	.0	1.6
-7/-8	*	.3	.3	.1	.1	.2	*	.0	.0	.0	44	.0	1.0
-9/-10	*	.1	*	.1	.1	*	.0	.0	.0	.0	18	.0	.4
-11/-13	*	*	.0	.0	.0	.0	.0	.0	.0	.0	4	.0	.1
TOTAL											4080		
PCT	.1	1.3	7.7	17.2	21.5	29.4	18.9	3.3	.5	*	100.0	2.0	98.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.6	1.0	.1	.0	.0	.0	1.8	.2	1.9	.0	.0	.0	.0	2.2
1-2	.4	3.0	.3	.0	.0	.0	3.7	.4	5.7	.2	.0	.0	.0	6.2
3-4	.0	.4	.8	.0	.0	.0	1.2	.1	.8	.5	.0	.0	.0	1.3
5-6	.0	.1	.2	.0	.0	.0	.3	.0	*	*	.0	.0	.0	*
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	*	.0	*
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	*	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	4.5	1.4	.0	.0	.0	6.9	.7	8.5	.7	.0	.1	.0	9.9

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.7	1.3	.1	.0	.0	.0	2.1	.5	1.3	.3	.0	.0	.0	2.0
1-2	.2	7.9	2.4	.0	.0	.0	10.5	.1	7.6	3.5	.0	.0	.0	11.2
3-4	.1	3.1	5.5	.0	.0	.0	8.8	.0	3.5	10.7	.7	.0	.0	14.9
5-6	.0	.5	2.5	.1	.0	.0	3.0	.0	.2	5.8	.9	.0	.0	6.9
7	.0	.2	.9	.0	.1	.0	1.2	.0	*	1.6	.8	.1	.0	2.5
8-9	.0	.0	.0	.1	.1	.0	.2	.0	.0	.6	.2	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.3	.0	.0	.6
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	*	.0	.0	.0	*
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	13.0	11.6	.2	.2	.0	26.0	.6	12.6	22.9	3.2	.1	.0	39.4

PERIOD: (OVER-ALL) 1963-1971

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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.8	.0	.0	.0	.0	1.0	.2	.2	.0	.0	.0	.0	.4	
1-2	.3	1.5	.5	.0	.0	.0	2.3	.*	.6	.2	.0	.0	.0	.8	
3-4	.0	.7	2.2	.3	.0	.0	3.2	.0	.1	.3	.0	.0	.0	.4	
5-6	.0	.0	.8	.3	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.4	.1	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	3.1	3.8	.7	.0	.0	8.1	.2	.9	.5	.0	.0	.0	1.6	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.3	.0	.0	.0	.0	.3	.1	.6	.0	.0	.0	.0	.7	
1-2	.1	.4	.1	.0	.0	.0	.5	.3	1.6	.3	.0	.0	.0	2.2	
3-4	.0	.1	.0	.2	.0	.0	.3	.0	.4	.6	.0	.0	.0	1.0	
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.1	.*	.0	.0	.0	.1	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.1	.8	.1	.2	.0	.0	1.2	.5	2.6	1.0	.0	.0	.0	4.1	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT QBS
<1	5.7	7.4	.4	.0	.0	.0	13.6	
1-2	2.2	28.0	7.3	.0	.0	.0	37.4	
3-4	.3	9.0	20.5	1.1	.0	.0	30.9	
5-6	.0	.8	9.4	1.3	.0	.0	11.5	
7	.0	.2	3.0	.9	.2	.0	4.3	
8-9	.0	.1	.6	.3	.1	.0	1.1	
10-11	.0	.0	.4	.2	.0	.0	.6	
12	.0	.0	.2	.0	.0	.0	.2	
13-16	.0	.0	.0	.3	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.2	45.6	41.7	4.2	.3	.0	100.0	1062

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
<6	8.7	29.0	23.2	5.5	1.9	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	988	3
6-7	.1	1.1	5.5	5.0	3.8	.8	.3	.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	257	5
8-9	.0	.2	.4	1.1	1.5	.5	.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	68	7
10-11	.0	.3	.3	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	5
12-13	.0	.0	.1	.1	.1	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	8
>13	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
INDET	5.2	1.3	.9	.5	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	1
TOTAL	14.0	31.9	33.3	12.3	7.6	1.7	1.2	.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1451	3
PCT	14.0	31.9	33.3	12.3	7.6	1.7	1.2	.4	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1889-1971
(OVER-ALL) 1863-1971

AREA 0003 CUMBERLAND ISLANDS
19.75 148.2E

TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	1.0	.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.4	12	.2
85/86	4.4	4.4	2.0	.2	.0	.0	.0	.0	.0	.0	.0	2.9	67	1.0
83/84	20.9	10.8	7.7	2.4	.3	.0	.0	.1	.0	1.2	2.7	9.6	315	4.9
81/82	43.8	47.9	38.3	15.0	.7	.0	.2	.3	.0	1.4	13.8	38.8	964	15.0
79/80	22.2	16.5	36.8	27.9	5.2	.8	.0	.4	1.1	10.7	28.5	31.5	891	13.8
77/78	7.2	7.4	12.7	31.8	18.7	1.5	.3	6.8	4.1	25.4	32.0	14.4	834	13.0
75/76	.2	3.0	.9	12.5	34.4	7.7	1.7	5.0	15.5	32.2	17.0	1.9	704	10.9
73/74	.3	.2	.9	7.5	27.1	30.0	9.5	15.2	30.5	20.3	4.9	.2	803	12.5
71/72	.0	.2	.2	1.8	9.8	35.8	29.4	23.3	31.4	7.8	1.0	.2	834	12.9
69/70	.0	.0	.2	.6	7.9	18.3	36.3	29.0	12.9	1.0	.0	.0	637	9.9
67/68	.0	.0	.0	.0	.7	4.2	18.8	15.3	4.1	.0	.0	.0	279	4.3
65/66	.0	.0	.0	.4	.2	1.1	8.4	2.9	.4	.0	.0	.0	74	1.1
63/64	.0	.0	.0	.0	.0	.7	1.4	1.5	.0	.0	.0	.0	24	.4
61/62	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
59/60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
57/58	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	573	405	457	506	582	614	637	717	465	516	487	479	6438	100.0
MEAN	81.4	81.3	80.3	78.0	74.9	71.9	69.7	71.0	72.5	75.8	78.1	80.5	76.2	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1008	1008	1006	1006	1009	1008	1007	1007	1007	373
FEB	1009	1008	1008	1007	1009	1009	1007	1008	1008	314
MAR	1012	1012	1010	1012	1012	1011	1011	1011	1011	307
APR	1015	1013	1012	1013	1015	1013	1012	1013	1013	362
MAY	1017	1016	1015	1016	1017	1016	1015	1016	1016	358
JUN	1019	1018	1016	1016	1017	1016	1017	1018	1017	486
JUL	1019	1018	1016	1016	1017	1017	1017	1017	1017	481
AUG	1019	1018	1016	1016	1017	1017	1017	1017	1017	427
SEP	1018	1016	1016	1015	1017	1016	1014	1014	1014	332
OCT	1017	1015	1013	1013	1016	1014	1014	1014	1014	350
NOV	1014	1013	1011	1013	1013	1014	1012	1013	1013	349
DEC	1011	1011	1009	1009	1011	1009	1009	1010	1010	291
ANN	1015	1014	1012	1013	1014	1013	1013	1014	1014	4430
OBS	457	525	742	526	396	458	771	555		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	993	995	1000	1005	1008	1010	1013	1014	1015
FEB	997	998	1001	1006	1008	1011	1013	1013	1019
MAR	1000	1002	1005	1010	1012	1013	1015	1016	1017
APR	1006	1007	1009	1011	1013	1013	1017	1019	1020
MAY	1007	1010	1012	1014	1016	1018	1020	1021	1022
JUN	1008	1009	1011	1015	1017	1019	1022	1024	1025
JUL	1008	1010	1012	1016	1017	1019	1022	1023	1027
AUG	1007	1007	1011	1015	1017	1019	1022	1024	1028
SEP	1006	1008	1011	1014	1016	1018	1021	1023	1026
OCT	1003	1004	1008	1012	1015	1017	1019	1021	1023
NOV	1003	1004	1007	1010	1013	1015	1018	1020	1022
DEC	1002	1003	1005	1008	1010	1012	1015	1016	1018

PERIOD: (PRIMARY) 1916-1971
(OVER-ALL) 1883-1971

JANUARY

AREA 0004 ROCKHAMPTON
23.25 152.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.2	5.5	.0	.0	.0	.0	.0	7.7	2.2	2.2	.0	.0	4.4	.0	83.5
NE	4.3	8.0	1.2	.0	.0	.0	.0	13.6	2.8	3.1	.0	.0	.0	.0	81.1
E	3.5	6.6	.0	.0	.0	.0	.0	10.1	1.1	3.2	.0	.0	.7	.0	85.3
SE	3.3	5.9	.5	.0	.0	.0	.0	9.8	3.3	2.1	.0	.0	1.1	.0	83.8
S	7.0	5.2	.0	.0	.0	.0	.0	12.2	.0	.0	.0	.0	3.5	.0	84.3
SW	33.3	22.2	.0	.0	.0	.0	.0	55.6	.0	.0	.0	.0	.0	.0	44.4
W	6.7	8.9	.0	.0	.0	.0	.0	15.6	.0	.0	.0	.0	.0	.0	84.4
NW	3.7	.0	3.7	.0	.0	.0	.0	7.4	.0	.0	.0	.0	3.7	.0	88.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	14.3	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	14.3	.0	71.4
TOT PCT	3.9	6.4	.6	.0	.0	.0	.0	10.8	2.1	2.2	.0	.0	1.5	.0	83.6
TOT OBS:	555														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.1	7.0	.0	.0	.0	.0	.0	10.2	.8	.0	.0	.0	1.6	.0	87.5
06009	2.4	5.5	.0	.0	.0	.0	.0	7.9	1.8	1.8	.0	.0	.6	.0	88.4
12015	3.6	7.1	.9	.0	.0	.0	.0	11.6	4.5	6.3	.0	.0	1.6	.0	75.9
18021	6.6	5.9	1.5	.0	.0	.0	.0	14.0	1.5	2.2	.0	.0	2.2	.0	80.1
TOT PCT	3.9	6.3	.6	.0	.0	.0	.0	10.7	2.0	2.4	.0	.0	1.5	.0	83.5
TOT OBS:	540														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	1.0	6.1	2.7	.3	.0	.0		10.1	9.0	8.9	9.9	9.4	12.4	6.7	18.1	8.8	7.1	
NE	1.3	10.7	3.6	.6	.0	.0		16.2	8.6	7.1	13.5	14.7	23.6	16.5	23.5	13.9	19.2	
E	2.0	14.6	9.3	1.6	.1	.0		27.4	10.6	31.3	24.0	23.4	20.8	32.4	21.7	34.0	30.1	
SE	.8	10.8	15.8	5.2	.3	.0		33.0	14.3	33.0	31.8	38.2	32.6	41.3	28.3	30.7	24.4	
S	.4	2.4	2.0	.3	.0	.0		5.2	10.9	6.3	10.4	8.1	1.1	.0	2.4	4.0	9.6	
SW	.3	.3	.0	.2	.0	.0		.8	8.6	1.5	1.6	.9	.0	.0	.0	.6	1.3	
W	.3	.7	.2	.3	.1	.0		1.6	12.0	5.1	2.1	.6	.0	2.8	.0	1.1	2.6	
NW	.6	2.6	1.4	.0	.0	.0		4.6	8.5	4.5	5.7	4.0	8.4	.0	6.0	3.8	4.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.3							1.3	.0	2.4	1.0	.6	1.1	.0	.0	3.1	1.3	
TOT OBS	63	385	281	67	4	0	800		11.1	84	96	168	89	71	83	131	78	
TOT PCT	7.9	48.1	35.1	8.4	.3	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	03	06	12	18
N	3.8	5.4	.7	.1	.0			10.1	9.0	9.4	10.4	12.8	8.1		
NE	7.6	7.3	1.0	.3	.0			16.2	8.6	10.6	17.8	20.3	15.9		
E	7.9	14.3	5.0	.3	.0			27.4	10.6	27.4	23.8	26.6	32.5		
SE	4.0	16.3	11.4	1.3	.0			33.0	14.3	32.4	36.3	34.4	28.3		
S	1.4	3.0	.7	.1	.0			5.2	10.9	8.5	4.4	1.3	6.1		
SW	.6	.0	.0	.2	.0			.8	8.6	1.3	.6	.0	.8		
W	.8	.5	.1	.3	.0			1.6	12.0	3.5	.4	1.3	1.7		
NW	1.8	2.6	.3	.0	.0			4.6	8.5	5.1	5.5	3.2	4.1		
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
CALM	1.3							1.3	.0	1.7	.8	.0	2.4		
TOT OBS	233	395	193	19	0	800			11.1	180	257	154	209		
TOT PCT	29.1	49.4	19.1	2.4	.0			100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1916-1971
(OVER-ALL) 1883-1971

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00603	1.7	5.6	47.2	36.7	8.9	.0	.0	.0	11.3	100.0	180
06609	.8	8.2	47.5	34.2	9.3	.0	.0	.0	10.8	100.0	257
12615	.0	2.6	51.3	39.6	5.7	1.3	.0	.0	11.6	100.0	154
18621	2.4	8.6	47.4	31.6	9.1	1.0	.0	.0	11.0	100.0	209
TOT	10	53	385	281	67	4	.0	.0	11.1		800
PCT	1.3	6.6	48.1	35.1	8.4	.5	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.5	2.0	2.4	.4		3.7
NE	4.6	2.1	2.4	2.0		3.8
E	12.2	8.1	8.4	1.3		3.5
SE	12.5	9.5	12.6	5.6		4.1
S	.9	.9	.8	.9		4.4
SW	.1	.5	.5	.0		4.5
W	.8	.0	1.8	.3		5.3
NW	.8	.3	.7	.5		4.3
VAR	.0	.0	.0	.0		.0
CALM	1.5	.0	.4	.0		1.6
TOT OBS	95	62	79	29	265	3.8
TOT PCT	35.8	23.4	29.8	10.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.0	.0	.0	1.0	.4	.0	.0	.0	.0	5.8	
NE	.0	.0	.0	.8	1.1	.8	.4	.0	.0	.0	7.9	
E	.0	.0	.0	.6	2.2	1.2	.7	.4	.0	.0	25.0	
SE	.4	.0	1.6	3.7	4.2	1.3	.5	.0	.0	.0	28.4	
S	.0	.0	.3	.3	.8	.0	.0	.0	.0	.0	2.3	
SW	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.6	
W	.0	.0	.0	.0	.3	.7	.8	.0	.0	.0	1.1	
NW	.0	.0	.0	.0	.1	.5	.0	.0	.0	.0	1.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	1.5	
TOT OBS	1	0	5	14	27	14	6	1	0	0	197	265
TOT PCT	.4	.0	1.9	5.3	10.2	5.3	2.3	.4	.0	.0	74.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0
>OR >500	.0	.0	.0	.0	.0	.0	.0	.0
>OR >1000	.4	.4	.4	.4	.4	.4	.4	.4
>OR >3500	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
>OR >2000	7.5	7.8	7.8	7.8	7.8	7.8	7.8	7.8
>OR >1000	15.3	17.9	17.9	17.9	17.9	17.9	17.9	17.9
>OR >600	18.3	22.8	22.8	22.8	22.8	22.8	22.8	22.8
>OR >300	19.0	23.5	24.3	24.6	24.6	24.6	24.6	24.6
>OR >150	19.0	23.5	24.3	24.6	24.6	24.6	24.6	24.6
>OR >0	19.4	23.9	24.6	25.0	25.0	25.0	25.0	25.0
TOTAL	52	64	66	67	67	67	67	67

TOTAL NUMBER OF OBS: 268

PCT FREQ NM <5/8: 75.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	8.1	20.5	19.9	14.7	9.8	5.9	7.5	5.5	8.1	307

PERIOD: (PRIMARY) 1916-1971
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
1<2	PCP	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.4	.4
	NO PCP	.4	.0	.0	.4	.2	.0	.0	.2	.0	.2	1.3	1.3
	TOT %	.4	.0	.1	.5	.3	.0	.0	.2	.0	.2	1.7	1.7
2<5	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2
	NO PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2
	TOT %	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.4	.4
5<10	PCP	.7	2.1	1.7	2.1	.7	.2	.3	.4	.0	.2	7.9	7.9
	NO PCP	3.5	7.3	7.6	11.8	3.1	.1	.4	2.7	.0	.0	36.4	36.4
	TOT %	4.2	9.3	9.3	13.9	3.5	.3	.7	3.0	.0	.2	44.3	44.3
10+	PCP	.0	.0	.8	1.0	.3	.2	.0	.0	.0	.0	2.4	2.4
	NO PCP	4.0	5.6	16.1	19.5	1.4	.3	1.4	1.8	.0	.9	31.0	31.0
	TOT %	4.0	5.6	16.9	20.6	1.8	.5	1.4	1.8	.0	.9	33.5	33.5
TOT OBS													535
TOT PCT		8.5	15.1	26.4	35.4	5.4	.8	2.1	5.0	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.2
	4-10	.2	.0	.2	.1	.2	.0	.0	.0	.0	.0	.7	.7
	11-21	.2	.0	.0	.4	.2	.0	.0	.2	.0	.0	1.0	1.0
	22+	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
	TOT %	.5	.2	.2	.5	.4	.0	.0	.2	.0	.2	2.1	2.1
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.3	.3
	11-21	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	.2
	TOT %	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.7	.7
5<10	0-3	.1	.7	1.1	.9	.0	.0	.3	.4	.0	.2	3.8	3.8
	4-10	1.9	6.6	4.9	4.6	1.8	.3	.3	1.5	.0	.0	21.9	21.9
	11-21	1.8	1.5	2.7	5.3	1.1	.0	.0	.8	.0	.0	13.2	13.2
	22+	.2	.4	.2	1.6	.0	.0	.0	.0	.0	.0	2.4	2.4
	TOT %	4.0	9.3	8.8	12.5	2.9	.3	.6	2.7	.0	.2	41.3	41.3
10+	0-3	.1	.2	.8	.*	.2	.4	.1	.1	.0	1.0	2.9	2.9
	4-10	3.7	4.2	9.0	5.8	.5	.0	.5	.9	.0	.0	24.5	24.5
	11-21	1.5	2.0	6.7	11.0	.9	.0	.3	.7	.0	.0	23.2	23.2
	22+	.0	.*	1.2	3.0	.2	.2	.5	.0	.0	.0	5.2	5.2
	TOT %	5.3	6.4	17.7	19.8	1.9	.6	1.4	1.8	.0	1.0	55.8	55.8
TOT OBS													613
TOT PCT		9.8	16.0	27.1	33.2	5.1	.9	2.0	4.6	.0	1.3	100.0	

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PERIOD: (PRIMARY) 1916-1971
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	1.2	3.5	11.8	5.9	.0	1.2	.0	.0	23.5	76.5	85
06009	.0	.0	.0	6.2	6.2	6.2	2.5	.0	.0	.0	21.0	79.0	81
12015	.0	.0	4.5	4.5	12.1	6.1	1.5	.0	.0	.0	28.8	71.2	66
18021	1.7	.0	1.7	5.0	6.7	.0	5.0	.0	.0	.0	20.0	80.0	60
TOT	1	0	5	14	27	14	6	1	0	0	68	224	292
PCT	.3	.0	1.7	4.8	9.2	4.8	2.1	.3	.0	.0	23.3	76.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	1.4	.7	30.3	67.6	142
06009	.0	.5	2.6	.5	43.1	53.3	195
12015	.0	.0	1.6	.8	40.5	57.1	126
18021	.0	.0	2.6	.6	49.0	47.7	155
TOT	0	1	13	4	254	346	618
PCT	.0	.2	2.1	.6	41.1	56.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	1.2	4.9	19.8	75.3	81
06009	.0	.0	6.6	15.8	77.6	76
12015	.0	5.1	8.5	22.0	69.5	59
18021	1.9	3.8	9.6	13.5	76.9	52
TOT	1	6	19	48	201	268
PCT	.4	2.2	7.1	17.9	75.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	1.7	1.0	.7	.5	.0	14	3.5
80/84	.0	.0	.0	2.0	7.9	14.3	11.4	4.2	161	39.8
75/79	.0	.0	.0	1.5	9.9	21.5	13.8	6.9	217	53.6
70/74	.0	.0	.0	.0	.2	.7	.0	1.7	11	2.7
65/69	.0	.0	.0	.0	.0	.0	.2	.2	2	.5
TOTAL	0	0	0	19	77	151	105	53	405	100.0
PCT	.0	.0	.0	4.7	19.0	37.3	25.9	13.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.8	.8	.5	.5	.0	.2	.1	.0	.0
5.6	6.7	9.0	11.5	1.3	.1	1.2	3.6	.0	.7
3.3	8.2	14.8	20.9	2.0	.7	1.3	1.4	.0	1.0
.4	.2	.9	.6	.6	.1	.0	.0	.0	.0
.0	.0	.0	.0	.2	.2	.0	.0	.0	.0
9.4	15.9	25.4	33.9	4.7	1.1	2.8	5.0	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	86	85	84	80	76	69	69	79.9	177
06009	88	87	85	79	76	72	70	79.7	253
12015	85	83	82	78	74	73	72	78.1	154
18021	84	82	81	78	74	72	71	77.8	207
TOT	88	86	84	79	75	72	69	79.0	791

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	10.0	27.0	37.0	17.0	9.0	74	100		
06009	.0	6.4	22.4	38.4	20.0	12.8	76	123		
12015	.0	.0	10.0	38.9	34.4	16.7	80	90		
18021	.0	1.1	14.9	34.0	36.2	13.8	79	94		
TOT	0	19	78	192	107	53	77	409		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.2	.2	2	.0	.5
6	.0	.0	.2	.5	.2	4	.0	1.0
5	.0	.0	.0	1.4	1.0	10	.0	2.4
4	.0	.0	.0	1.7	1.0	11	.0	2.6
3	.0	.0	1.0	3.6	1.2	24	.0	5.7
2	.0	.0	3.8	9.0	.5	39	.0	9.3
1	.0	.2	10.5	3.8	.0	61	.0	14.6
0	.0	1.9	9.8	4.5	.0	68	.0	16.2
-1	.0	2.4	12.6	2.1	.0	72	.0	17.2
-2	.0	1.9	8.8	.2	.0	46	.0	11.0
-3	.0	2.4	5.3	.2	.0	33	.0	7.9
-4	.0	2.4	1.9	.2	.0	19	.0	4.5
-5	.0	1.2	2.4	.0	.0	13	.0	3.6
-6	.2	1.2	.7	.0	.0	9	.0	2.1
-7/-8	.2	.5	.0	.2	.0	4	.0	1.0
-9/-10	.2	.0	.0	.0	.0	1	.0	.2
-11/-13	.2	.0	.0	.0	.0	1	.0	.2
TOTAL	4	59	100	17		419	0	419
PCT	1.0	14.1	57.0	23.9	4.1	100.0		100.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.4	.0	.0	.0	.7	.0	1.0	.0	.0	.0	.0	1.0
1-2	.3	2.7	.3	.0	.0	.0	3.3	.0	3.0	.0	.0	.0	.0	3.0
3-4	.0	2.4	.4	.0	.0	.0	2.8	.0	1.2	2.1	.1	.0	.0	3.4
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.3	1.5	.0	.0	.0	7.2	.0	5.2	3.7	.1	.0	.0	9.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	4.1	.0	.0	.0	.0	4.1	.0	2.0	.0	.0	.0	.0	2.0
1-2	1.5	7.8	3.0	.0	.0	.0	12.3	.1	6.9	2.0	.0	.0	.0	9.0
3-4	.0	2.0	6.2	.7	.0	.0	8.8	.0	1.7	8.2	.8	.0	.0	10.8
5-6	.0	.4	2.3	.0	.0	.0	2.7	.0	.4	4.8	.0	.4	.0	5.7
7	.0	.0	1.3	.7	.0	.0	2.1	.0	.0	4.0	.0	.0	.0	7.0
8-9	.0	.0	.0	.6	.0	.0	.6	.0	.0	.4	1.4	.0	.0	1.9
10-11	.0	.0	.3	.3	.0	.0	.6	.0	.0	.9	.6	.0	.0	1.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.8
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.5	14.3	13.1	2.4	.0	.0	31.3	.1	11.0	20.4	6.7	.8	.0	39.0

PERIOD: (OVER-ALL) 1963-1971

JANUARY

AREA 0004 ROCKHAMPTON
23.25 152.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3	.5	.1	.0	.0	.0	.0	.6
1-2	.3	.4	.8	.0	.0	.0	1.5	.1	.0	.0	.0	.0	.0	.1
3-4	.0	.4	.4	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	.8	2.0	.6	.0	.0	4.0	.6	.1	.0	.3	.0	.0	1.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0	.4	
1-2	.3	.4	.3	.0	.0	.0	1.0	.2	1.4	.2	.0	.0	.0	1.9	
3-4	.0	.0	.4	.0	.0	.0	.4	.0	.1	.4	.0	.0	.0	.5	
5-6	.0	.4	.0	.4	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	1.1	.7	.8	.4	.0	3.4	.2	2.0	.6	.0	.0	.0	2.8	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.2	8.1	.4	.0	.0	.0	11.7	
1-2	3.6	22.7	6.5	.0	.0	.0	32.8	
3-4	.0	7.7	17.8	1.6	.0	.0	27.1	
5-6	.0	1.2	9.3	.4	.4	.0	11.3	
7	.0	.0	5.7	4.5	.0	.0	10.1	
8-9	.0	.0	.4	2.4	.4	.0	3.2	
10-11	.0	.0	1.2	1.2	.0	.0	2.4	
12	.0	.0	.0	.4	.4	.0	.8	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	247
TOT PCT	6.9	39.7	41.3	10.9	1.2	.0	100.0	

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.9	10.7	12.2	6.3	3.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	94	3
6-7	.0	.7	9.3	12.6	4.4	3.7	1.9	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	91	5
8-9	.0	.0	2.6	6.3	4.4	3.0	3.3	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	7
10-11	.0	.0	.4	.4	.4	.0	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
12-13	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	11
>13	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	3	13
INDET	2.6	1.5	1.9	1.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	2
TOTAL	12	35	71	72	35	20	16	7	1	0	1	0	0	0	0	0	0	0	0	270	5
PCT	4.4	13.0	26.3	26.7	13.0	7.4	5.9	2.6	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1920-1972
(OVER-ALL) 1863-1972

TABLE 1

AREA 0004 ROCKHAMPTON
23.25 152.4E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	6.4	.0	.0	.0	.0	.0	.0	6.4	.0	4.6	.0	.0	.0	.0	89.0
NE	8.8	11.0	.0	.0	.0	.0	.0	19.9	.0	3.9	.0	.0	.0	.0	78.5
E	3.3	10.4	.8	.0	.0	.0	.0	14.5	2.3	.8	1.5	.0	1.5	.8	78.6
SE	2.0	9.8	.4	.0	.0	.0	.0	12.1	4.0	.9	.0	.0	1.2	.0	81.8
S	9.4	9.9	2.0	.0	.0	.0	.0	21.3	1.5	1.5	2.0	.0	.0	.0	73.8
SW	40.0	12.0	.0	.0	.0	.0	.0	52.0	.0	.0	.0	.0	.0	.0	48.0
W	.0	29.6	.0	.0	.0	.0	.0	29.6	.0	.0	.0	.0	.0	.0	70.4
NW	1.7	6.6	.0	.0	.0	.0	.0	8.5	.0	.0	.0	.0	.0	.0	91.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	.0	91.7
TOT PCT	4.5	9.6	.5	.0	.0	.0	.0	14.6	2.5	1.3	.5	.0	1.1	.2	80.0
TOT OBS:	594														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.3	10.1	.8	.0	.0	.0	.0	13.2	1.6	.0	.0	.0	1.6	.8	82.9
06009	3.2	9.6	.6	.0	.0	.0	.0	13.4	1.3	.6	1.9	.0	1.3	.0	81.5
12015	3.3	8.9	.0	.0	.0	.0	.0	12.2	4.1	3.3	.0	.0	.8	.0	79.7
18021	8.4	10.4	.6	.0	.0	.0	.0	19.5	3.2	1.3	.0	.0	.6	.0	76.0
TOT PCT	4.4	9.8	.5	.0	.0	.0	.0	14.7	2.5	1.2	.5	.0	1.1	.2	79.9
TOT OBS:	563														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	3.6	1.9	.1	.0	.0		6.2	9.2		2.1	5.1	8.2	10.4	4.0	6.5	7.9	6.3
NE	.7	7.1	1.4	.1	.0	.0		9.4	8.3		8.3	4.3	7.2	6.1	12.8	15.9	8.9	13.9
E	1.5	11.1	10.8	2.1	.1	.0		25.6	12.0		17.0	28.1	22.5	34.8	19.5	31.5	27.8	24.1
SE	.4	9.5	26.2	6.7	.2	.0		43.0	15.6		49.7	48.3	50.5	35.4	49.7	32.6	37.9	36.7
S	.0	2.3	3.9	1.3	.3	.3		8.0	16.7		10.1	4.3	7.2	7.9	9.5	7.4	9.1	8.9
SW	.1	.3	.6	.3	.1	.3		1.6	23.1		.6	2.8	2.0	.6	1.5	.3	1.0	3.8
W	.3	.2	.3	.0	.3	.0		1.0	16.3		.9	1.7	.7	.0	.0	1.2	1.4	1.9
NW	1.1	1.6	.4	.1	.0	.0		3.2	6.9		5.4	5.1	1.1	2.4	1.8	3.5	3.1	4.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0		6.0	.0	2.6	2.4	1.2	1.2	2.8	.0
TOT OBS	55	285	361	85	7	4	797		13.2		84	89	153	82	82	85	143	79
TOT PCT	6.9	35.8	45.3	10.7	.9	.5		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	1.8	3.8	.5	.1	.0		6.2	9.2	3.6	7.7	5.2	7.3
NE	3.8	5.0	.5	.1	.0		9.4	8.3	6.4	6.8	14.4	10.7
E	5.6	13.1	6.5	.3	.1		25.6	12.0	22.7	26.8	25.6	26.5
SE	3.2	19.6	18.5	1.6	.1		43.0	15.6	49.0	45.2	41.0	37.5
S	1.2	2.8	3.4	.3	.4		8.0	16.7	7.2	7.4	8.4	9.0
SW	.2	.4	.4	.1	.4		1.6	23.1	1.7	1.5	.9	2.0
W	.3	.4	.0	.1	.1		1.0	16.3	1.3	.4	.6	1.6
NW	1.8	1.2	.1	.1	.0		3.2	6.9	5.2	1.6	2.7	3.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	2.9	2.6	1.2	1.8
TOT OBS	160	369	238	22	8	797		13.2	173	235	167	222
TOT PCT	20.1	46.3	29.9	2.8	1.0		100.0		100.0	100.0	100.0	100.0

FEBRUARY

PERIOD: (PRIMARY) 1920-1972
(OVER-ALL) 1863-1972AREA 0004 ROCKHAMPTON
23.25 152.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00003	2.9	4.6	39.3	43.9	9.2	.0	.0	12.4	100.0	173
06009	2.6	5.1	34.0	45.1	11.5	.4	1.3	13.4	100.0	235
12015	1.2	3.6	34.1	47.3	12.0	1.8	.0	13.8	100.0	167
18021	1.8	5.4	36.0	45.0	9.9	1.4	.5	13.3	100.0	222
TOT	17	38	285	361	85	7	4	13.2		797
PCT	2.1	4.8	35.8	45.3	10.7	.9	.5	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.7	.3	2.2	.3		3.8
NE	4.0	1.8	.8	1.0		3.0
E	4.6	5.4	6.4	3.9		4.5
SE	11.1	14.2	19.1	6.9		4.6
S	2.3	2.8	1.9	1.7		4.4
SW	.3	.0	.1	.4		3.1
W	.0	.9	.0	.0		3.3
NW	1.1	.9	.9	.1		3.1
VAR	.0	.0	.0	.0		.0
CALM	2.0	1.0	.0	.0		1.5
TOT OBS	80	80	92	42	294	4.3
TOT PCT	27.2	27.2	31.3	14.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.7	.3	.0	.0	.0	.0	.0	3.5
NE	.0	.0	.0	.0	.8	.3	.0	.0	.0	.0	.0	6.5
E	.0	.0	1.7	1.7	1.4	1.4	.0	.0	.0	.0	.0	14.0
SE	.0	.0	2.9	3.6	4.8	4.1	1.1	.0	.0	.0	.0	34.9
S	.0	.0	.5	.5	.9	.0	.5	.0	.0	.0	.0	8.3
SW	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9
NW	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	2.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1
TOT OBS	0	0	15	17	25	18	6	0	0	0	0	213
TOT PCT	.0	.0	5.1	5.8	8.5	6.1	2.0	.0	.0	.0	.0	72.4

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >30YD	= OR >0
= OR >6300	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	1.7	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >2000	6.7	7.7	8.1	8.1	8.1	8.1	8.1	8.1
= OR >1000	13.1	15.8	16.5	16.5	16.5	16.5	16.5	16.5
= OR >600	16.8	20.5	22.2	22.2	22.2	22.2	22.2	22.2
= OR >300	17.5	24.6	26.9	26.9	27.3	27.3	27.3	27.3
= OR >150	17.5	24.6	26.9	26.9	27.3	27.3	27.3	27.3
= OR >0	17.5	24.6	26.9	26.9	27.3	27.3	27.3	27.3
TOTAL	52	73	80	80	81	81	81	81

TOTAL NUMBER OF OBS: 297

PCT FREQ NH <5/8: 72.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
3.7	17.8	23.3	14.7	12.3	6.7	6.1	4.3	11.0	.0	326

PERIOD: (PRIMARY) 1920-1972
(OVER-ALL) 1883-1972

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.0	.2	.0	.2	.2	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.4	.0	.2	.2	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.4	.5	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.4	.5	.0	.0	.0	.0	.0	.0	.0	
2<5	PCP	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.1	.4	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	1.1	.0	.0	.0	.0	.0	.0	.0	
5<10	PCP	.2	1.1	2.8	4.0	1.8	1.0	.4	.2	.0	.0	11.4	
	NO PCP	2.1	2.5	9.6	13.5	2.5	.9	.4	.9	.0	.5	32.9	
	TOT %	2.3	3.6	12.5	17.5	4.2	1.9	.7	1.1	.0	.5	44.2	
10+	PCP	.1	.5	.4	.9	.0	.0	.0	.0	.0	.0	2.0	
	NO PCP	2.5	4.0	9.5	26.1	4.7	.2	.5	1.5	.0	1.6	50.7	
	TOT %	2.7	4.6	9.9	27.0	4.7	.2	.5	1.6	.0	1.6	52.7	
TOT OBS													554
TOT PCT		4.9	8.2	23.4	46.1	9.1	2.3	1.2	2.7	.0	2.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.4	.1	.2	.2	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.7	.1	.2	.2	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.1	.0	.3	.6	.0	.0	.0	.1	.0	.0	1.1	
	22+	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.3	.8	.0	.0	.0	.1	.0	.0	1.3	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
	11-21	.3	.0	.0	.7	.1	.0	.0	.0	.0	.0	1.1	
	22+	.1	.0	.2	.4	.0	.0	.0	.1	.0	.0	.0	
	TOT %	.4	.0	.2	1.3	.1	.0	.0	.1	.0	.0	2.1	
5<10	0-3	.4	.0	.6	.2	.0	.2	.0	.4	.0	.5	2.2	
	4-10	1.1	2.2	4.5	4.2	1.0	.2	.2	.3	.0	.0	13.6	
	11-21	.5	1.0	5.4	8.0	1.5	.6	.2	.2	.0	.0	17.9	
	22+	.0	.0	1.0	3.9	1.4	.6	.3	.0	.0	.0	7.2	
	TOT %	2.0	3.2	11.5	16.3	3.9	1.6	.6	1.0	.0	.5	40.6	
10+	0-3	.1	.8	.4	.2	.0	.0	.2	.2	.0	1.4	3.4	
	4-10	2.5	3.7	5.4	5.8	1.4	.1	.1	1.4	.0	.0	20.4	
	11-21	.7	.7	5.5	17.7	2.3	.1	.2	.1	.0	.0	27.3	
	22+	.0	.0	.6	2.6	.5	.0	.0	.0	.0	.0	3.7	
	TOT %	3.3	5.1	12.0	26.3	4.2	.2	.4	1.7	.0	1.4	54.7	
TOT OBS													623
TOT PCT		5.8	8.3	24.9	44.9	8.3	2.0	1.1	2.8	.0	1.9	100.0	

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PERIOD: (PRIMARY) 1920-1972
(OVER-ALL) 1883-1972

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	3.4	6.9	8.0	4.6	3.4	.0	.0	.0	26.4	73.6	87
06009	.0	.0	3.9	3.9	10.5	5.3	2.6	.0	.0	.0	26.3	73.7	76
12015	.0	.0	4.9	4.9	6.1	6.1	1.2	.0	.0	.0	23.2	76.8	82
18021	.0	.0	7.0	5.6	8.5	7.0	.0	.0	.0	.0	28.2	71.8	71
TOT	0	0	15	17	26	18	6	0	0	0	82	234	316
PCT	.0	.0	4.7	5.4	8.2	5.7	1.9	.0	.0	.0	25.9	74.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	2.8	2.8	32.4	62.0	142
06009	.6	.6	1.7	1.1	46.7	49.4	180
12015	.0	.8	.0	2.3	31.6	65.4	133
18021	.0	2.8	.6	2.3	47.5	46.9	177
TOT	1	7	8	13	256	347	632
PCT	.2	1.1	1.3	2.1	40.5	54.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	.000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	3.7	11.0	17.1	72.0	82
06009	.0	4.1	8.1	18.9	73.0	74
12015	.0	5.2	13.0	11.7	75.3	77
18021	.0	7.8	14.1	15.6	70.3	64
TOT	0	15	34	47	216	297
PCT	.0	5.1	11.4	15.8	72.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
85/89	.0	.0	.0	.0	.9	2.0	.0	.2	14	3.1
80/84	.0	.0	.0	.0	3.7	15.2	12.7	4.4	164	36.0
75/79	.0	.0	.0	.4	5.9	28.6	15.2	8.4	266	58.5
70/74	.0	.0	.0	.0	.0	.2	.7	1.3	10	2.2
TOTAL	0	0	0	3	48	209	130	65	455	100.0
PCT	.0	.0	.0	.7	10.5	45.9	28.6	14.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
90/94	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
85/89	.0	.3	.9	1.4	.0	.0	.0	.0	.0	.4
80/84	4.5	4.2	9.0	12.0	1.8	.1	.6	2.5	.0	1.5
75/79	1.4	3.6	12.6	31.1	6.4	1.2	.9	.8	.0	.7
70/74	.0	.0	.2	.7	1.0	.3	.0	.0	.0	.0
TOTAL	5.9	8.1	22.6	45.4	9.1	1.5	1.5	3.2	.0	2.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	87	86	85	80	76	75	73	80.2	170
06009	92	87	84	79	75	72	71	79.5	236
12015	84	82	81	78	74	73	71	78.0	163
18021	88	85	82	78	74	71	69	77.9	221
TOT	92	86	83	79	75	72	69	78.9	790

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	.9	15.0	50.5	23.4	10.3	77	107
06009	.0	.8	11.7	46.9	27.3	13.3	79	128
12015	.0	.0	8.7	49.0	28.8	13.5	79	104
18021	.0	.8	8.8	37.6	33.6	19.2	81	125
TOT	0	3	31	212	132	66	79	464

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PERIOD: (PRIMARY) 1920-1972
(OVER-ALL) 1883-1972

TABLE 17

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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.2	1	.0	.2
9/10	.0	.0	.0	.0	.2	.0	1	.0	.2
7/8	.0	.0	.2	.0	.0	.0	1	.0	.2
6	.0	.0	.0	.0	.3	.0	2	.0	.5
5	.0	.0	.7	.2	1.4	.0	10	.0	2.3
4	.0	.0	1.2	.2	1.6	.0	13	.0	3.0
3	.0	.0	1.4	1.2	.0	.0	11	.0	2.6
2	.0	.0	1.9	3.5	.0	.0	23	.0	5.4
1	.0	.5	6.1	6.5	.0	.0	56	.0	13.1
0	.2	1.2	13.1	5.1	.0	.0	84	.0	19.6
-1	.0	2.8	17.1	2.3	.0	.0	78	.0	18.2
-2	.0	1.2	13.8	1.4	.0	.0	70	.0	16.3
-3	.0	3.0	5.6	1.2	.0	.0	42	.2	9.6
-4	.0	.5	4.0	.0	.0	.0	19	.0	4.4
-5	.0	.5	1.9	.0	.0	.0	10	.0	2.3
-6	.5	.9	.2	.0	.0	.0	7	.0	1.6
-7/-8	.0	.2	.0	.0	.0	.0	1	.0	.2
TOTAL	3	46	93	16	1	429	100.0	.2	99.8
PCT	.7	10.7	62.9	21.7	3.7	.2			

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.8	1.5	.0	.0	.0	.0	2.3
1-2	.3	1.9	.3	.0	.0	.0	2.5	.4	2.1	.0	.0	.0	.0	2.5
3-4	.0	.7	.3	.0	.0	.0	1.1	.0	.9	.1	.0	.0	.0	1.1
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.7	1.4	.0	.0	.0	5.4	1.3	4.5	.5	.0	.0	.0	6.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5	.4	2.2	.0	.0	.0	.0	2.6
1-2	.0	3.5	1.5	.0	.0	.0	4.9	.0	4.7	4.1	.0	.0	.0	8.8
3-4	.0	1.3	5.9	.0	.0	.0	7.1	.0	2.6	13.6	.4	.0	.0	16.6
5-6	.0	1.2	2.2	.0	.0	.0	3.4	.0	.5	11.8	1.3	.0	.0	13.6
7	.0	.0	.4	.6	.0	.0	1.1	.0	.0	3.2	1.5	.0	.0	4.6
8-9	.0	.0	.4	.4	.0	.0	.8	.0	.0	2.1	.5	.0	.0	2.6
10-11	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	1.1	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4	.4	.0	.0	.8
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.4	10.8	1.7	.0	.0	19.9	.4	10.1	35.1	5.1	.0	.0	50.7

PERIOD: (OVER-ALL) 1963-1977

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.5	.3	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0
3-4	.0	.7	1.6	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.7	.0	.0	.0	.7	.0	.1	.3	.0	.0	.0	.4	.0
7	.0	.3	2.4	.8	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.4	.7	.4	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.0	.0	.0	.4	.0
TOT PCT	.0	2.5	5.9	1.6	.4	.0	10.4	.0	.1	.3	.0	.0	.0	.4	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	.0	.0	.0	.0	.0	.4	.4	.5	.0	.0	.0	.0	.9	.0
1-2	.0	.3	.0	.0	.0	.0	.3	.1	1.2	.1	.0	.0	.0	1.4	.0
3-4	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	.3	.4	.0	.0	.0	1.2	.5	1.7	.2	.0	.0	.0	2.4	96.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.2	6.6	.0	.0	.0	.0	12.8	.0
1-2	2.1	14.8	6.2	.0	.0	.0	23.0	.0
3-4	.0	6.2	21.4	.4	.0	.0	28.0	.0
5-6	.0	1.6	15.2	1.2	.0	.0	18.1	.0
7	.0	.4	6.2	2.9	.0	.0	9.5	.0
8-9	.0	.0	3.3	1.6	.4	.0	5.3	.0
10-11	.0	.0	.4	1.6	.0	.0	2.1	.0
12	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.8	.4	.0	.0	1.2	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	8.2	29.6	53.5	8.2	.4	.0	100.0	243

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.8	7.4	10.5	7.7	2.8	.7	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	94	4
6-7	.0	.4	10.2	11.2	4.6	3.9	2.1	.7	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	6
8-9	.0	.0	1.1	4.2	6.3	5.6	1.8	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	7
10-11	.0	.4	.4	.7	.0	1.1	1.1	.7	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	9
12-13	.0	.0	1.1	.0	.0	.0	.7	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	8
>13	.0	.0	.0	.4	.0	.0	.4	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	11
INDET	1.1	.7	.4	1.1	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	4
TOTAL	11	25	67	72	39	32	22	6	9	2	0	0	0	0	0	0	0	0	0	285	8
PCT	3.9	8.8	23.5	25.3	13.7	11.2	7.7	2.1	3.2	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1917-1971
(OVER-ALL) 1882-1971

MARCH

AREA 0004 ROCKHAMPTON
23.23 152.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	3.4	.0	.0	.0	.0	.0	.0	3.4	.0	5.2	.0	.0	.0	.0	91.4
NE	2.7	8.2	1.4	.0	.0	.0	.0	12.3	2.7	.7	.0	.0	.0	.0	84.2
E	3.4	7.1	1.4	.0	.0	.0	.0	11.8	1.5	.0	1.2	.0	.0	.0	85.4
SE	3.1	8.1	.5	.0	.0	.0	.0	11.7	4.9	.8	.4	.0	.0	.0	82.1
S	7.5	3.1	.0	.0	.0	.0	.0	10.6	1.9	.0	.0	.0	2.5	.0	85.1
SW	.0	12.5	.0	.0	.0	.0	.0	12.5	.0	.0	.0	.0	.0	.0	87.5
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	3.3	13.1	.0	.0	.0	.0	.0	16.4	.0	.0	.0	.0	.0	.0	83.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.4	7.1	.7	.0	.0	.0	.0	11.2	3.0	.6	.6	.0	.2	.0	84.5
TOT OBS:	534														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
00003	3.6	6.5	.0	.0	.0	.0	.0	10.1	4.3	.0	.7	.0	.7	.0	84.2
06009	5.0	7.5	1.2	.0	.0	.0	.0	13.7	1.2	.0	1.2	.0	.0	.0	83.9
12015	.9	6.9	.0	.0	.0	.0	.0	7.8	2.6	1.7	.0	.0	.0	.0	87.9
18021	3.1	7.0	1.6	.0	.0	.0	.0	11.6	3.9	.8	.0	.0	.0	.0	83.7
TOT PCT	3.3	7.0	.7	.0	.0	.0	.0	11.0	2.9	.6	.6	.0	.2	.0	84.8
TOT OBS:	545														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.3	3.1	.9	.1	.0	.0		4.3	8.4		.0	3.1	4.5	4.9	6.1	7.2	4.5	5.3
NE	1.4	5.9	1.9	.3	.0	.0		9.6	8.3		3.0	12.0	6.5	9.9	6.1	13.2	12.1	17.3
E	1.9	12.4	11.9	2.3	.4	.0		28.9	12.4		34.5	25.0	26.2	33.2	26.7	33.6	32.2	19.3
SE	.8	10.0	20.0	9.7	1.6	.0		42.1	16.9		42.3	40.9	48.0	41.5	45.3	38.8	35.7	42.7
S	.8	2.0	2.9	1.1	.4	.0		7.2	14.0		14.3	8.1	6.4	2.2	9.6	3.9	6.6	6.0
SW	.0	.4	.7	.0	.0	.0		1.1	12.6		3.0	.0	1.2	1.1	.0	.0	1.4	1.3
W	.1	1.0	.2	.1	.0	.0		1.5	8.0		.8	4.2	2.0	1.1	1.2	.0	.7	1.3
NW	.2	2.1	.7	.2	.0	.0		3.2	9.1		1.3	4.7	2.5	4.9	2.6	2.0	3.4	5.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0		1.0	2.1	2.9	1.1	2.3	1.3	3.4	1.3
TOT OBS	64	311	330	117	20	0	842		13.4		100	96	173	91	86	76	145	75
TOT PCT	7.6	36.9	39.2	13.9	2.4	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	2.0	2.0	.3	.0	.0		4.3	8.4	1.5	4.6	6.6	4.8
NE	4.8	3.7	1.2	.0	.0		9.6	8.3	7.4	7.7	9.4	13.9
E	5.7	15.7	6.2	1.4	.0		28.9	12.4	29.8	28.6	29.9	27.8
SE	2.9	18.8	14.7	5.6	.1		42.1	16.9	41.6	45.7	42.3	38.1
S	1.0	3.9	1.5	.7	.0		7.2	14.0	11.2	4.9	6.9	6.4
SW	.0	.8	.2	.0	.0		1.1	12.6	1.5	1.1	.0	1.4
W	.8	.5	.1	.0	.0		1.5	8.0	2.4	1.7	.6	.9
NW	1.9	1.0	.1	.2	.0		3.2	9.1	2.9	3.3	2.3	4.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	1.5	2.3	1.9	2.7
TOT OBS	179	391	205	66	1	842		13.4	196	264	162	220
TOT PCT	21.3	46.4	24.3	7.8	.1		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1917-1971
(OVER-ALL) 1882-1971

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23.25 192.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND DIR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	1.5	6.1	36.2	41.3	12.8	2.0	.0	13.4	100.0	196
06609	2.3	4.2	33.7	42.8	14.0	3.0	.0	14.0	100.0	264
12615	1.9	5.6	31.5	43.2	16.0	1.9	.0	13.9	100.0	162
18621	2.7	6.4	45.5	30.0	13.2	2.3	.0	12.3	100.0	220
TOT	18	46	311	330	117	20	0	13.4		842
PCT	2.1	5.5	36.9	39.2	13.9	2.4	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	MEAN CLOUD COVER
N	1.9	.0	.0	.5	2.1
NE	2.7	1.4	.6	.7	3.0
E	7.4	7.2	9.5	4.7	4.4
SE	10.2	10.4	16.4	9.1	4.8
S	2.7	1.7	2.7	2.0	4.6
SW	1.0	.6	.3	.6	4.0
W	.9	.3	.0	.0	1.0
NW	1.8	.0	.3	.4	2.7
VAR	.0	.0	.0	.0	.0
CALM	1.9	.0	.0	.0	4.3
TOT OBS	95	67	93	56	311
TOT PCT	30.5	21.5	29.9	18.0	100.0

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	2.2	
NE	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	4.4	
E	.0	.0	1.0	3.9	3.6	2.2	.3	.0	.0	.0	17.8	
SE	.0	.0	.3	5.6	10.3	2.4	.3	.0	1.0	.3	29.8	
S	.0	.0	.0	.8	2.5	.6	.3	.0	.0	.0	5.0	
SW	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	1.9	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	
TOT OBS	0	0	5	33	54	16	3	1	3	1	195	311
TOT PCT	.0	.0	1.6	10.6	17.4	5.1	1.0	.3	1.0	.3	62.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >4000	1.0	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >3500	1.6	2.2	2.5	2.5	2.5	2.5	2.5	2.5
= OR >2000	6.0	7.3	7.6	7.6	7.6	7.6	7.6	7.6
= OR >1000	17.1	23.8	25.1	25.1	25.1	25.1	25.1	25.1
= OR >600	25.4	33.7	35.6	35.6	35.6	35.6	35.6	35.6
= OR >300	26.0	35.2	37.1	37.1	37.1	37.1	37.1	37.1
= OR >150	26.0	35.2	37.1	37.1	37.1	37.1	37.1	37.1
= OR >0	26.0	35.2	37.1	37.1	37.1	37.1	37.1	37.1
TOTAL	82	111	117	117	117	117	117	117

TOTAL NUMBER OF OBS: 315

PCT FREQ NH <5/8: 62.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
8.3	15.6	17.2	14.7	8.1	10.6	7.8	6.4	11.4	.0	360

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PERIOD: (PRIMARY) 1917-1971
(OVER-ALL) 1882-1971AREA 0004 ROCKHAMPTON
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.4	.2	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.7	.3	.0	.0	.0	.0	.0	.0	.9	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
2<5	PCP	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.7	
	NO PCP	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.0	.9	.4	.0	.0	.0	.0	.0	1.3	
5<10	PCP	.1	.8	2.4	4.2	.4	.2	.0	.5	.0	.0	8.6	
	NO PCP	.7	2.3	8.8	13.2	1.0	.9	.8	.0	.4	.4	28.3	
	TOT %	.7	3.2	11.3	17.4	1.5	.2	.9	1.3	.0	.4	36.9	
10+	PCP	.0	.0	.9	.6	.0	.0	.0	.0	.0	.0	1.5	
	NO PCP	2.0	3.7	17.6	25.4	5.5	1.3	.8	1.5	.0	1.3	59.2	
	TOT %	2.0	3.7	18.5	26.0	5.5	1.3	.8	1.5	.0	1.3	60.7	
TOT OBS													934
TOT PCT		2.7	6.8	30.5	44.7	7.5	1.5	1.7	2.9	.0	1.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.6	.1	.0	.0	.0	.0	.0	.0	.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.6	.2	.0	.0	.0	.0	.0	.0	.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.0	.2	.5	.2	.0	.0	.0	.0	.0	.8	
	22+	.0	.0	.1	.6	.2	.0	.0	.0	.0	.0	.8	
	TOT %	.0	.0	.3	1.3	.9	.0	.0	.0	.0	.0	2.0	
5<10	0-3	.0	.6	.4	.4	.2	.0	.2	.3	.0	.7	2.8	
	4-10	.7	1.9	4.5	2.5	.1	.0	.7	1.0	.0	.0	11.3	
	11-21	.2	.7	5.3	7.4	.6	.2	.0	.2	.0	.0	14.5	
	22+	.0	.0	.0	5.1	.3	.0	.2	.3	.0	.0	5.9	
	TOT %	.8	3.1	10.2	15.4	1.3	.2	1.0	1.8	.0	.7	34.4	
10+	0-3	.2	.4	.6	.5	.0	.0	.0	.0	.0	1.6	3.9	
	4-10	1.2	2.8	9.2	8.4	1.5	.5	.5	1.2	.0	.0	25.3	
	11-21	.4	.4	7.6	12.8	2.3	.8	.3	.5	.0	.0	25.3	
	22+	.0	.0	1.3	6.0	.9	.0	.0	.0	.0	.0	8.2	
	TOT %	1.9	3.7	18.7	27.7	5.2	1.3	.8	1.8	.0	1.6	62.6	
TOT OBS													613
TOT PCT		2.7	6.8	29.8	44.7	7.0	1.5	1.8	3.5	.0	2.3	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	190 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	1.0	9.0	15.0	3.0	2.0	.0	2.0	.0	32.0	68.0	100
06009	.0	.0	1.1	11.1	16.7	4.4	1.1	.0	.0	.0	34.4	65.6	90
12015	.0	.0	2.4	9.4	16.5	5.9	.0	1.2	.0	1.2	36.5	63.5	85
18021	.0	.0	1.4	8.3	15.3	5.6	.0	.0	1.4	.0	31.9	68.1	72
TOT	0	0	5	33	55	16	3	1	3	1	117	230	347
PCT	.0	.0	1.4	9.5	15.9	4.6	.9	.3	.9	.3	33.7	66.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.7	.7	2.0	29.6	67.1	152
06009	.0	2.1	.0	2.1	38.2	57.6	191
12015	.0	.0	.0	2.3	29.2	68.5	130
18021	.0	.0	.0	1.3	38.4	60.3	151
TOT	0	5	1	12	214	392	624
PCT	.0	.8	.2	1.9	34.3	62.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<130 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	1.1	12.8	21.3	66.0	94
06009	.0	1.2	13.4	24.4	62.2	82
12015	.0	2.6	14.5	26.3	59.2	76
18021	.0	1.6	12.7	23.8	63.5	63
TOT	0	5	42	75	198	315
PCT	.0	1.6	13.3	23.8	62.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
80/84	.0	.0	.0	.9	7.0	11.6	3.9	1.5	114	24.9
75/79	.0	.0	.2	1.7	13.3	28.6	21.0	5.9	324	70.7
70/74	.0	.0	.0	.0	.2	1.1	1.5	1.1	18	3.9
65/69	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
TOTAL	0	0	1	13	94	189	121	40	498	100.0
PCT	.0	.0	.2	2.8	20.5	41.3	28.4	8.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0
80/84	.7	1.9	7.4	10.2	2.0	.7	1.1	.8	.0	.2
75/79	2.0	2.8	22.1	31.9	5.8	1.1	.9	2.4	.0	1.7
70/74	.0	.2	1.3	2.1	.3	.0	.0	.0	.0	.0
65/69	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
TOTAL	2.9	4.9	30.7	44.2	8.4	1.7	2.0	3.2	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	87	83	79	74	71	70	78.8	190
06009	87	84	83	79	74	71	69	78.7	266
12015	84	83	80	77	75	74	71	77.6	163
18021	86	84	80	77	73	70	68	77.1	220
TOT	88	84	82	78	74	71	68	78.1	839

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.5	28.8	44.1	20.3	4.2	74	118
06009	.0	5.1	21.9	42.3	23.4	7.3	75	137
12015	.0	2.9	16.2	41.0	32.4	7.6	77	105
18021	.0	1.8	14.5	39.1	28.2	16.4	79	110
TOT	0	15	97	196	121	41	76	470

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	NO FOG
7/8	.0	.0	.0	.0	.2	.0	1	.0	.2
6	.0	.0	.0	.2	.2	.0	2	.0	.5
5	.0	.0	.0	.7	.5	.0	5	.0	1.2
4	.0	.0	.0	.7	.7	.2	7	.0	1.6
3	.0	.0	.0	1.8	2.1	.2	18	.0	4.1
2	.0	.0	.5	3.5	3.7	.0	33	.2	7.4
1	.0	.0	.5	6.7	1.8	.0	39	.2	8.8
0	.0	.0	1.8	10.6	1.6	.0	61	.0	14.1
-1	.0	.0	2.3	15.4	.9	.0	81	.2	18.4
-2	.0	.0	3.5	10.8	.0	.0	62	.0	14.3
-3	.0	.0	3.9	7.8	.5	.0	53	.0	12.2
-4	.0	.0	3.2	3.0	.0	.0	27	.0	6.2
-5	.0	.0	2.5	2.5	.0	.0	22	.0	5.1
-6	.0	.0	.9	.7	.0	.0	7	.0	1.6
-7/-8	.0	.7	1.4	.5	.0	.0	11	.0	2.5
-9/-10	.2	.2	.0	.2	.0	.0	3	.0	.7
-11/-13	.0	.5	.0	.0	.0	.0	2	.0	.5
TOTAL	1	6	89	283	53	2	434	3	431
PCT	.2	1.4	20.5	65.2	12.2	.5	100.0	.7	99.3

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.3	.0	.0	.0	.0	1.6	.5	.5	.0	.0	.0	.0	.9
1-2	.0	.3	.0	.0	.0	.0	.3	.0	3.5	.6	.0	.0	.0	4.1
3-4	.3	.4	.4	.0	.0	.0	1.0	.1	.8	.4	.0	.0	.0	1.2
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	2.0	.4	.0	.0	.0	2.9	.6	4.7	.9	.0	.0	.0	6.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8	.0	.4	.0	.0	.0	.0	.4
1-2	.4	7.9	1.7	.0	.0	.0	9.9	.0	5.0	2.1	.0	.0	.0	7.1
3-4	.0	4.8	5.6	.0	.0	.0	10.4	.0	2.7	7.3	1.6	.0	.0	11.6
5-6	.0	.3	3.1	.0	.0	.0	3.4	.0	1.2	4.2	3.5	.4	.0	9.3
7	.0	.0	1.8	1.6	.0	.0	3.4	.0	.0	3.6	5.2	.6	.0	9.4
8-9	.0	.0	.3	.3	.0	.0	.6	.0	.0	1.2	.9	1.1	.0	3.3
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	1.2	.2	.0	1.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	14.1	12.5	2.2	.0	.0	29.2	.0	9.4	18.4	12.9	2.3	.0	42.9

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	.4	.4	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.4	1.3	.0	.0	.0	2.7	.0	.8	.0	.0	.0	.0	.8	.0
3-4	.0	.8	1.9	.3	.0	.0	2.9	.0	.0	1.9	.0	.0	.0	1.9	.0
5-6	.0	.0	1.0	.3	.0	.0	1.3	.0	.0	.4	.0	.0	.0	.4	.0
7	.0	.0	.3	.0	.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	2.6	4.9	1.2	1.1	.0	10.2	.0	.8	2.3	.0	.0	.0	3.0	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5	.0
1-2	.0	.0	.3	.0	.0	.0	.3	.0	.9	.1	.0	.0	.0	.9	.0
3-4	.0	.8	.4	.0	.0	.0	1.1	.0	.4	.8	.0	.0	.0	1.1	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	.8	.7	.0	.0	.0	1.4	.0	1.7	.9	.0	.0	.0	2.6	98.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	3.0	3.8	.4	.0	.0	.0	7.1	085
1-2	.4	19.5	6.0	.0	.0	.0	25.9	
3-4	.8	10.5	18.4	1.9	.0	.0	31.6	
5-6	.0	1.5	8.6	3.8	.4	.0	14.3	
7	.0	.0	5.6	6.8	1.1	.0	13.5	
8-9	.0	.0	1.5	1.9	1.1	.0	4.5	
10-11	.0	.0	.0	1.5	.8	.0	2.3	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.4	.0	.0	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.1	35.7	40.6	16.2	3.4	.0	100.0	266

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	7.0	11.8	5.4	1.6	1.3	1.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	4
6-7	.0	.0	7.3	14.0	6.4	4.5	1.9	1.0	1.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	116	6
8-9	.0	.3	1.3	3.4	4.1	5.4	2.5	1.6	.3	.6	.3	.6	.0	.0	.0	.0	.0	.0	.0	71	8
10-11	.0	.0	.3	.3	.0	.3	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	9
12-13	.0	.0	.6	.3	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	6
>13	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	3	18
INDET	.6	1.0	1.3	.3	.3	.3	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	5
TOTAL	5	26	71	81	42	38	22	11	8	2	3	5	0	0	0	0	0	0	0	314	6
PCT	1.6	8.3	22.6	25.8	13.4	12.1	7.0	3.5	2.5	.6	1.0	1.6	.0	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1881-1969

TABLE 1

AREA 0004 ROCKHAMPTON
23.25 152.3E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	.0	2.6	1.9	.0	.0	.0	.0	4.5	1.9	7.1	.0	.0	.0	.0	86.5
NE	6.8	5.5	2.3	.0	.0	.0	.0	14.6	2.3	5.0	1.8	.0	.0	.0	80.8
E	5.9	9.3	.0	.0	.0	.0	.0	15.2	.7	2.0	.0	.0	.0	.0	82.5
SE	6.6	8.4	.0	.0	.0	.0	.0	15.0	2.4	.6	.0	.0	.0	.0	82.0
S	7.6	8.2	.0	.0	.0	.0	.0	10.9	.0	.0	.0	.0	.0	.0	89.1
SW	2.4	1.2	.0	.0	.0	.0	.0	3.6	2.4	.0	.0	.0	.0	.0	94.1
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	2.7	2.7	.0	.0	.0	.0	.0	5.4	.0	.0	.0	.0	.0	.0	94.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	5.9	.0	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	94.1
TOT PCT TOT OBS:	4.8 693	6.8	.4	.0	.0	.0	.0	12.0	1.4	1.4	.1	.0	.0	.0	85.4

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	5.0	7.9	.0	.0	.0	.0	.0	12.9	.7	.7	.7	.0	.0	.0	84.9
06009	4.7	8.5	.3	.0	.0	.0	.0	13.7	2.4	1.4	.0	.0	.0	.0	82.5
12015	2.6	6.5	.0	.0	.0	.0	.0	9.1	1.9	2.6	.0	.0	.0	.0	87.0
18021	5.9	4.9	1.0	.0	.0	.0	.0	11.7	.3	1.3	.0	.0	.0	.0	87.3
TOT PCT TOT OBS:	4.7	6.9	.4	.0	.0	.0	.0	12.0	1.4	1.6	.1	.0	.0	.0	85.3

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WVD DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21
N	.8	4.0	.8	.0	.0	.0		5.6	7.1	2.7	3.2	9.7	11.3	.0	13.4	4.8	3.3
NE	1.1	5.9	.9	.1	.0	.0		8.1	7.1	2.7	5.4	6.5	9.9	7.7	8.6	13.9	6.5
E	.8	8.6	8.2	1.6	.3	.0		19.8	12.6	30.4	11.7	16.7	13.5	33.5	14.5	25.9	13.6
SE	.8	12.9	19.5	5.1	.6	.0		38.9	14.2	40.1	41.9	42.7	40.1	46.3	37.6	31.0	34.2
S	1.2	5.0	4.7	1.1	.3	.0		12.2	11.9	10.5	14.0	13.9	10.4	6.8	10.8	11.1	18.5
SW	.5	2.8	1.3	.1	.0	.0		4.7	9.2	3.9	8.6	6.3	2.1	2.3	3.2	2.9	7.1
W	.6	1.9	.4	.0	.0	.0		2.9	6.7	2.1	6.3	3.1	4.2	.0	2.2	1.6	3.8
NW	.8	3.4	1.0	.1	.0	.0		5.3	7.9	6.3	6.3	3.5	7.3	.0	7.5	4.7	8.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6							2.6	.0	1.2	2.7	1.6	1.0	3.4	2.2	4.1	4.3
TOT OBS	85	412	340	76	13	0	926		11.5	83	111	192	96	88	93	171	92
TOT PCT	9.2	44.5	36.7	8.2	1.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	2.9	2.5	.2	.0	.0		5.6	7.1	3.0	7.6	6.9	4.3	
NE	4.3	3.5	.3	.0	.0		8.1	7.1	4.2	7.6	8.1	11.3	
E	4.0	10.6	4.2	.9	.0		19.8	12.6	19.7	15.6	23.8	21.6	
SE	5.3	19.4	12.7	1.4	.1		38.9	14.2	41.1	41.8	41.9	32.1	
S	2.8	6.6	2.4	.4	.0		12.2	11.9	12.5	12.8	8.8	13.7	
SW	1.5	2.9	.2	.0	.0		4.7	9.2	6.6	4.9	2.8	4.4	
W	1.6	1.3	.0	.0	.0		2.9	6.7	4.5	3.5	1.1	2.4	
NW	2.2	2.9	.2	.0	.0		5.3	7.9	6.3	4.8	3.9	6.1	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.6						2.6	.0	2.1	1.4	2.8	4.2	
TOT OBS	252	461	187	25	1	926		11.5	194	288	181	263	
TOT PCT	27.2	49.8	20.2	2.7	.1		100.0		100.0	100.0	100.0	100.0	

APRIL

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1881-1969

TABLE 4

AREA 0004 ROCKHAMPTON
23.25 152.3E

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
00003	2.1	5.2	46.9	34.0	9.3	2.6	.0	11.9	100.0	194	
06009	1.4	9.4	42.4	36.8	8.3	1.7	.0	11.7	100.0	288	
12015	2.8	4.4	40.9	42.0	9.4	.6	.0	11.8	100.0	181	
18021	4.2	6.1	47.5	35.0	6.5	.8	.0	10.7	100.0	263	
TOT	24	61	412	340	76	13	0	11.5		926	
PCT	2.6	6.6	44.5	36.7	8.2	1.4	.0	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	.0	.8	.2		2.9
NE	3.2	1.4	.8	1.3		3.5
E	9.4	6.9	8.9	3.1		3.9
SE	12.1	12.5	12.9	3.6		4.0
S	5.6	3.6	2.0	.2		2.6
SW	2.2	1.3	1.0	.3		3.2
W	1.0	.0	.2	.0		2.5
NW	.8	1.3	.1	.0		2.6
VAR	.0	.0	.0	.0		.0
CALM	1.6	.3	.0	.0		1.3
TOT OBS	114	84	82	27	307	3.6
TOT PCT	37.1	27.4	26.7	8.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.0	.0	.0	.0	.6	.0	.0	.0	.0	1.4	
NE	.1	.0	.0	.0	.4	.2	.0	.0	.0	.0	5.6	
E	.0	.0	.0	2.5	4.4	.7	.0	.0	.0	.0	20.0	
SE	.0	.0	.3	2.0	6.9	2.9	.1	.0	.0	.0	28.8	
S	.0	.0	.0	.3	1.6	.0	.0	.0	.0	.0	9.5	
SW	.0	.0	.3	.0	.3	.3	.0	.0	.0	.0	3.8	
W	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	1.0	
NW	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	2.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	
TOT OBS	1	0	1	16	42	15	3	0	0	0	228	307
TOT PCT	.3	.0	.7	5.2	13.7	4.9	1.0	.0	.0	.0	74.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	.3	.6	.6	1.0	1.0	1.0	1.0	1.0
= OR >2000	3.9	5.2	5.2	5.8	5.8	5.8	5.8	5.8
= OR >1000	15.2	17.8	18.8	19.4	19.4	19.4	19.4	19.4
= OR >600	19.1	23.0	23.9	24.6	24.6	24.6	24.6	24.6
= OR >300	19.1	23.3	24.3	25.2	25.2	25.2	25.2	25.2
= OR >150	19.1	23.3	24.3	25.2	25.2	25.2	25.2	25.2
= OR >0	19.4	23.6	24.6	25.6	25.6	25.6	25.6	25.6
TOTAL	60	73	76	79	79	79	79	79

TOTAL NUMBER OF OBS: 309

PCT FREQ NH <5/8: 74.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	9.0	20.2	18.1	16.9	9.6	10.2	6.0	5.1	4.8	.0	332

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1881-1969

APRIL

AREA 0004 ROCKHAMPTON
23.25 152.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
1<2	PCP	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0	.4	
2<5	PCP	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.1	.4	.1	.0	.0	.0	.0	.0	.0	.7	
5<10	PCP	.1	.8	2.0	3.7	1.0	.1	.0	.3	.0	.0	8.1	
	NO PCP	3.9	2.6	5.2	12.8	5.8	3.9	2.5	3.9	.0	1.4	42.1	
	TOT %	4.0	3.4	7.3	16.5	6.9	4.0	2.5	4.2	.0	1.4	50.2	
10+	PCP	.0	.1	1.0	1.2	.3	.0	.0	.0	.0	.1	2.7	
	NO PCP	1.5	4.0	12.7	17.5	5.1	2.0	.7	1.2	.0	.9	45.5	
	TOT %	1.5	4.1	13.6	18.7	5.4	2.0	.7	1.2	.0	1.0	48.2	
TOT OBS													
TOT PCT		5.6	7.9	21.4	35.6	12.3	6.1	3.2	5.3	.0	2.5	100.0	693

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.1	.0	.0	.1	.0	.0	.0	.0	.4	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.5	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.1	.3	.1	.0	.0	.0	.0	.0	.0	.5	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.4	.1	.0	.0	.0	.0	.0	.0	.7	
5<10	0-3	.9	.4	.4	.6	.5	.5	.4	.5	.0	1.3	5.4	
	4-10	2.3	2.4	2.4	4.3	3.5	2.8	1.4	2.5	.0		21.6	
	11-21	.5	.2	2.9	8.5	2.1	.4	.3	.7	.0		19.7	
	22+	.0	.1	1.1	2.6	.7	.0	.0	.1	.0		4.6	
	TOT %	3.7	3.1	6.8	15.9	6.7	3.6	2.3	3.8	.0	1.3	47.2	
10+	0-3	.1	.5	.4	.3	1.0	.1	.1	.2	.0	1.1	3.7	
	4-10	1.5	3.1	6.1	6.1	1.3	.5	.7	.9	.0		20.0	
	11-21	.4	.4	5.7	11.5	2.7	1.2	.0	.3	.0		22.1	
	22+	.0	.0	1.2	3.1	1.0	.1	.0	.0	.0		5.4	
	TOT %	2.0	3.9	13.3	21.0	6.0	1.9	.8	1.3	.0	1.1	51.2	
TOT OBS													
TOT PCT		5.8	7.4	20.6	37.4	12.6	5.6	3.1	5.1	.0	2.4	100.0	760

APRIL

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1881-1969AREA 0004 ROCKHAMPTON
23.25 152.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.2	.0	1.2	6.0	19.3	2.4	1.2	.0	.0	.0	31.3	68.7	83
06009	.0	.0	1.1	4.6	13.8	8.0	.0	.0	.0	.0	27.6	72.4	87
12015	.0	.0	.0	4.8	11.9	3.6	1.2	.0	.0	.0	21.4	78.6	84
18021	.0	.0	.0	4.3	5.7	4.3	1.4	.0	.0	.0	15.7	84.3	70
TOT	1	0	2	16	42	15	3	0	0	0	79	245	324
PCT	.3	.0	.6	4.9	13.0	4.6	.9	.0	.0	.0	24.4	75.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.7	.0	2.0	.0	38.8	58.6	152
06009	.0	.4	.4	.8	50.2	48.1	239
12015	.0	.6	.0	1.2	42.6	55.6	162
18021	.0	.0	.0	.4	55.2	44.4	223
TOT	1	2	4	5	371	393	776
PCT	.1	.3	.5	.6	47.8	50.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.3	2.3	10.1	22.8	67.1	79
06009	.0	1.1	9.2	18.4	72.4	87
12015	.0	.0	6.4	17.9	75.6	78
18021	.0	.0	6.2	10.8	83.1	65
TOT	1	3	25	55	229	309
PCT	.3	1.0	8.1	17.8	74.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.2	.3	.2	.3	.0	.0	6	1.0
80/84	.0	.0	.2	.8	3.2	2.0	1.4	.8	90	8.4
75/79	.0	.2	.8	2.9	12.0	26.2	13.3	8.6	367	62.0
70/74	.0	.5	.5	1.5	9.2	8.4	7.6	3.0	139	26.9
65/69	.0	.0	.0	.0	.3	.2	1.0	.2	10	1.7
TOTAL	0	4	10	33	124	220	138	63	592	100.0
PCT	.0	.7	1.7	5.6	20.9	37.2	23.3	10.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.4	.3	.0	.1	.1	.0	.0	.0
.7	.6	1.4	2.0	.5	.8	.6	1.1	.0	.8	.8
4.1	6.2	15.4	22.7	4.6	1.9	2.6	3.6	.0	1.0	1.0
.8	.8	4.8	10.3	5.2	2.6	.4	1.0	.0	1.0	1.0
.0	.0	.2	.4	.6	.4	.1	.0	.0	.0	.0
5.6	7.6	21.8	35.9	11.1	5.6	3.8	5.7	.0	2.9	

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	86	83	77	72	67	66	77.0	190
06009	88	84	82	77	73	70	69	76.8	290
12015	81	80	79	75	72	69	68	73.2	183
18021	83	81	79	75	70	68	66	75.0	269
TOT	90	84	81	76	72	68	66	76.0	932

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	13.4	26.1	34.3	20.2	5.9	73	119		
06009	.0	10.6	21.7	34.4	21.7	11.7	75	180		
12015	.0	4.5	19.5	40.6	26.3	9.0	76	135		
18021	.0	4.0	16.8	35.3	23.7	16.2	78	173		
TOT	0	48	125	225	139	68	75	605		

APRIL

PERIOD: (PRIMARY) 1921-1969
(OVER-ALL) 1881-1969

TABLE 17

AREA 0004 ROCKHAMPTON
23.2S 152.3EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	TOT	N FOG	WD FOG
11/13	.0	.0	.3	.0	.0	.0	2	.0	.3
9/10	.0	.0	.0	.0	.3	.0	2	.0	.3
7/8	.0	.2	.0	.2	.0	.7	6	.0	1.0
6	.0	.0	.2	.3	.3	.2	6	.0	1.0
5	.0	.2	.2	.8	.7	.0	11	.0	1.8
4	.0	.3	.3	1.5	.8	.0	18	.0	3.0
3	.0	.2	.5	2.3	1.3	.0	26	.0	4.3
2	.0	.0	2.3	3.3	.8	.0	39	.0	6.4
1	.0	.0	2.8	5.6	.7	.0	55	.0	9.1
0	.0	.2	8.4	7.6	.3	.0	100	.0	16.5
-1	.0	1.0	11.2	5.1	.0	.0	105	.0	17.3
-2	.0	.5	10.2	4.0	.0	.0	89	.0	14.7
-3	.0	1.3	6.4	1.0	.0	.0	53	.0	8.7
-4	.0	.7	4.3	1.2	.0	.0	37	.0	6.1
-5	.0	.8	2.5	.3	.0	.0	22	.0	3.6
-6	.0	2.0	1.0	.0	.0	.0	18	.0	3.0
-7/-8	.7	.8	.7	.0	.0	.0	13	.0	2.1
-9/-10	.2	.3	.3	.0	.0	.0	5	.0	.8
TOTAL	5	51	313	201	32	5	607	.0	607
PCT	.8	8.4	51.6	33.1	5.3	.8	100.0		100.0

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.4	2.3	.0	.0	.0	.0	2.7
1-2	.0	.7	.0	.0	.0	.0	.7	.0	2.2	.4	.0	.0	.0	2.6
3-4	.0	.4	.0	.0	.0	.0	.4	.0	.9	.0	.0	.0	.0	.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.4	.8	.0	.0	.0	1.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	.0	.0	.0	.0	1.4	.4	5.8	1.3	.0	.0	.0	7.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	.3	.0	.0	.0	2.4	.0	1.7	.1	.0	.0	.0	1.8
1-2	.0	5.2	2.9	.0	.0	.0	8.0	.0	5.0	2.3	.0	.0	.0	7.2
3-4	.0	3.2	5.2	.4	.0	.0	8.7	.0	2.4	11.3	.4	.0	.0	14.1
5-6	.0	1.8	2.9	.7	.0	.0	5.4	.0	1.0	5.5	3.1	.0	.0	9.5
7	.0	.7	2.3	1.6	.0	.0	4.6	.0	.5	1.7	1.7	.1	.0	4.0
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	1.2	.8	.0	.0	2.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	2.0	.1	.0	2.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.8
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	12.9	13.5	3.1	.0	.0	29.5	.0	10.5	22.4	8.7	1.0	.0	42.7

PERIOD: (OVER-ALL) 1963-1969

APRIL

AREA 0004 ROCKHAMPTON
23.25 152.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
1-2	.0	1.2	.0	.0	.0	.0		.0	.8	.0	.0	.0	.0	.0		.8
3-4	.4	1.1	3.4	.0	.0	.0		.4	.0	.0	1.2	.0	.0	.0		1.2
5-6	.0	.0	1.2	.6	.0	.0		.0	.4	.4	.0	.0	.0	.0		1.2
7	.0	.0	.7	.3	.3	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.4	.0	.0		.4
10-11	.0	.0	.0	.0	.3	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.4	2.3	5.3	.9	.6	.0		9.4	.4	1.2	1.6	.4	.0	.0		3.6

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.4	.3	.0	.0	.0	.0		.7	.0	.1	.0	.0	.0	.0		.1	
1-2	.0	.7	.0	.0	.0	.0		.7	.0	1.4	.0	.0	.0	.0		1.4	
3-4	.0	.0	.0	.0	.0	.0		.0	.0	.0	.4	.0	.0	.0		.4	
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.4	1.0	.0	.0	.0	.0		1.4	.0	1.5	.4	.0	.0	.0		1.9	97.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.6	6.7	.4	.0	.0	.0	10.7	
1-2	.0	17.0	5.3	.0	.0	.0	22.5	
3-4	.8	7.9	21.3	.8	.0	.0	30.8	
5-6	.4	3.6	10.7	4.3	.0	.0	19.0	
7	.0	1.2	4.7	3.6	.4	.0	9.9	
8-9	.0	.0	1.2	1.6	.0	.0	2.8	
10-11	.0	.0	.4	2.0	.4	.0	2.8	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.0	.4	.4	.0	.8	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.4	.0	.4	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.7	36.4	44.3	13.0	1.6	.0	100.0	253

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.3	11.5	13.8	3.3	3.0	.7	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	110	3
6-7	.0	3.0	7.9	8.6	6.3	1.3	2.0	1.0	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	94	6
8-9	.0	.7	1.0	7.9	3.9	3.0	1.3	.7	2.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	65	8
10-11	.0	.7	.0	.0	.0	1.6	.7	.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	8
12-13	.0	.0	.0	.0	1.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
>13	.0	.0	.0	.0	.3	.3	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	10
INDEX	2.0	.3	.7	1.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	3
TOTAL	16	49	71	63	44	21	13	9	15	1	1	0	1	0	0	0	0	0	0	304	5
PCT	5.3	16.1	23.4	20.7	14.5	6.9	4.3	3.0	4.9	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1881-1970

MAY

AREA 0004 ROCKHAMPTON
23.2S 152.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	3.3	.0	.0	.0	.0	.0	3.3	1.6	.0	.0	.0	.0	.0	95.1
NE	1.7	7.8	1.7	.0	.0	.0	.0	11.3	.9	1.7	.0	.0	.0	.0	86.1
E	2.9	6.6	.0	.0	.0	.0	.0	9.4	2.3	2.3	.0	.0	.0	.0	85.8
SE	2.1	12.3	.0	.0	.0	.0	.0	14.4	1.7	.0	.0	.0	.0	.0	83.9
S	1.2	4.4	1.2	.0	.0	.0	.0	6.7	1.6	1.6	.0	.0	.0	.0	89.5
SW	.9	4.1	.0	.0	.0	.0	.0	5.0	.0	2.1	.0	.0	.0	.0	92.9
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	1.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	99.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	2.3	.0	.0	.0	.0	.0	2.3	.0	.0	2.3	.0	.0	.0	95.3
TOT PCT	1.5	6.6	.3	.0	.0	.0	.0	8.4	1.2	1.0	.2	.0	.0	.0	89.1
TOT OBS:	894														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHMR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	.5	5.4	.0	.0	.0	.0	.0	5.9	1.6	.0	.0	.0	.0	.0	92.5
06009	1.3	5.6	.3	.0	.0	.0	.0	7.3	1.3	.3	.0	.0	.0	.0	91.0
12015	2.2	7.3	.6	.0	.0	.0	.0	10.1	1.7	2.2	.0	.0	.0	.0	86.0
18021	1.5	7.3	.4	.0	.0	.0	.0	9.2	.4	1.5	.0	.0	.0	.0	88.2
TOT PCT	1.4	6.4	.3	.0	.0	.0	.0	8.1	1.2	1.0	.2	.0	.0	.0	89.5
TOT OBS:	928														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.3	2.6	.5	.0	.0	.0		4.3	6.2	4.4	3.9	3.6	3.2	2.0	6.5	4.8	5.1	
NE	1.2	4.7	1.0	.1	.0	.0		7.0	7.2	6.3	6.9	6.8	9.4	6.7	9.1	5.8	4.8	
E	1.3	7.0	6.8	1.2	.0	.0		16.4	11.3	15.6	13.8	18.4	18.8	21.7	15.6	15.7	13.3	
SE	1.3	10.4	13.3	3.0	.0	.0		28.0	13.0	40.6	26.5	26.8	27.3	27.3	26.0	30.0	25.5	
S	1.3	8.8	6.9	1.1	.0	.0		18.0	10.7	14.7	23.5	21.6	11.0	19.7	13.6	15.6	21.8	
SW	2.1	6.8	2.5	.4	.0	.0		11.8	8.2	9.1	14.1	11.5	9.4	6.3	14.6	10.9	15.0	
W	1.1	3.1	.6	.1	.0	.0		5.0	7.1	.9	4.1	4.0	5.8	5.0	5.5	6.2	6.5	
NW	1.1	2.6	1.1	.0	.0	.0		4.8	7.6	3.9	5.0	4.0	7.8	6.0	4.5	2.9	4.1	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.8							4.8	.0	2.5	2.2	3.4	7.1	5.3	4.5	8.2	4.1	
TOT OBS	190	568	404	73	0	0	1235		9.8	80	181	237	154	75	154	207	147	
TOT PCT	13.4	46.0	32.7	5.9	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	06	12	18	21
N	2.7	1.5	.1	.0	.0			4.3	6.2	4.0	3.5	5.0	4.9		
NE	4.0	2.4	.5	.0	.0			7.0	7.2	6.7	7.8	8.3	5.4		
E	4.5	8.2	3.6	.1	.0			16.4	11.3	14.4	18.5	17.6	14.7		
SE	5.3	13.4	8.6	.7	.0			28.0	13.0	30.8	27.0	26.4	28.1		
S	5.1	9.7	3.0	.2	.0			18.0	10.7	20.8	17.5	19.6	18.1		
SW	5.9	4.6	1.2	.1	.0			11.8	8.2	12.5	10.7	11.9	12.6		
W	2.8	1.8	.3	.0	.0			5.0	7.1	3.2	4.7	5.3	6.3		
NW	2.4	2.1	.3	.0	.0			4.8	7.6	5.3	5.5	5.0	3.4		
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
CALM	4.8							4.8	.0	2.3	4.9	4.8	6.3		
TOT OBS	463	541	217	14	0	1235			9.8	261	391	229	354		
TOT PCT	37.5	43.8	17.6	1.1	.0			100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1881-1970

MAY

AREA 0004 ROCKHAMPTON
23.25 152.0E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOURL	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	2.3	8.8	49.0	34.5	5.4	.0	.0	10.3	100.0	261
06009	4.9	11.5	45.8	30.4	7.4	.0	.0	9.8	100.0	391
12015	4.8	10.5	45.4	32.8	6.6	.0	.0	10.1	100.0	329
18021	6.5	11.0	44.4	33.9	4.2	.0	.0	9.4	100.0	354
TOT	59	131	568	404	73	0	0	9.8		1235
PCT	4.8	10.6	46.0	32.7	5.9	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.4	.0	1.3	.4		4.0
NE	.5	.8	1.8	2.0		6.0
E	4.6	2.9	8.1	3.2		4.7
SE	9.3	11.3	12.1	2.5		4.1
S	5.2	4.6	6.2	1.4		4.1
SW	4.4	2.8	1.2	.4		2.6
W	1.6	.7	.4	.0		2.5
NW	3.4	.7	.5	.1		1.8
VAR	.0	.0	.0	.0		.0
CALM	2.6	.0	1.1	.4		2.6
TOT OBS	88	64	87	28	267	3.9
TOT PCT	33.0	24.0	32.6	10.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.0	.3	1.2	.0	.0	.0	.0	.0	1.8	
.0	.0	.0	1.1	1.5	.4	.0	.0	.0	.0	2.1	
.0	.0	.0	1.1	3.9	1.4	1.1	.0	.0	.0	11.1	
.0	.0	.0	2.2	3.2	1.7	1.1	.0	.0	.1	26.9	
.0	.0	.0	.7	1.7	.3	.0	.0	.0	.3	14.4	
.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	8.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	
.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	4.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.4	.4	.0	.7	.0	.0	.0	2.6	
.0	.0	.0	16	32	10	10	0	0	1	198	267
.0	.0	.0	6.0	12.0	3.7	3.7	.0	.0	.4	74.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NH) = OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >4500	.4	.4	.4	.4	.4	.4	.4	.4
= OR >3000	.4	.4	.4	.4	.4	.4	.4	.4
= OR >2500	3.7	4.1	4.1	4.1	4.1	4.1	4.1	4.1
= OR >2000	6.7	7.8	7.8	7.8	7.8	7.8	7.8	7.8
= OR >1000	16.4	19.8	19.8	19.8	19.8	19.8	19.8	19.8
= OR >600	20.9	25.7	25.7	25.7	25.7	25.7	25.7	25.7
= OR >300	20.9	25.7	25.7	25.7	25.7	25.7	25.7	25.7
= OR >150	20.9	25.7	25.7	25.7	25.7	25.7	25.7	25.7
= OR >0	20.9	25.7	25.7	25.7	25.7	25.7	25.7	25.7
TOTAL	56	69	69	69	69	69	69	69

TOTAL NUMBER OF OBS: 268

PCT FREQ NH <5/8: 74.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.2	17.5	18.8	18.5	9.2	9.2	5.5	7.2	4.8	.0	292

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1881-1970

MAY

AREA 0004 ROCKHAMPTON
23.2S 152.0E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	.3	.3
	TOT %	.0	.0	.1	.0	.1	.0	.0	.0	.0	.1	.3	.3
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	PCP	.2	.5	1.2	3.9	1.2	.6	.0	.1	.0	.1	7.7	7.7
	NO PCP	3.0	3.7	6.0	13.3	11.0	7.9	3.1	3.6	.0	3.0	54.8	54.8
	TOT %	3.2	4.2	7.2	17.3	12.2	8.6	3.1	3.6	.0	3.1	62.5	62.5
10+	PCP	.0	.2	.1	.2	.1	.0	.0	.0	.0	.0	.7	.7
	NO PCP	1.9	2.0	6.2	11.3	6.8	3.7	1.2	1.9	.0	1.6	36.5	36.5
	TOT %	1.9	2.2	6.3	11.5	6.9	3.7	1.2	1.9	.0	1.6	37.1	37.1
													894
TOT OBS													
TOT PCT		5.1	6.4	13.6	28.7	19.2	12.2	4.3	5.6	.0	4.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.2
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.1	.3
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5<10	0-3	.9	.9	.6	.5	.5	2.0	.9	.6	.0	2.8	9.9	9.9
	4-10	1.3	2.2	3.4	6.4	4.9	4.0	1.6	1.9	.0		25.7	25.7
	11-21	.6	.6	2.8	7.2	5.2	1.5	.2	.7	.0		18.8	18.8
	22+	.0	.0	.3	1.4	.6	.1	.0	.0	.0		2.4	2.4
	TOT %	2.8	3.8	7.1	15.5	11.2	7.6	2.8	3.2	.0	2.8	56.8	56.8
10+	0-3	.4	.2	.6	.4	.4	.3	.1	.4	.0	2.1	5.1	5.1
	4-10	1.6	2.7	3.1	4.2	4.2	2.7	1.0	.9	.0		20.4	20.4
	11-21	.0	.3	3.1	7.0	2.5	1.1	.3	.6	.0		14.9	14.9
	22+	.0	.0	.3	1.3	.5	.3	.0	.0	.0		2.5	2.5
	TOT %	2.0	3.2	7.2	12.9	7.6	4.5	1.5	1.9	.0	2.1	42.9	42.9
													1004
TOT OBS													
TOT PCT		4.9	7.0	14.4	28.4	18.9	12.1	4.3	5.2	.0	5.0	100.0	

MAY

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1881-1970AREA 0004 ROCKHAMPTON
23.25 152.0E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <3/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	3.9	9.1	3.9	1.3	.0	.0	.0	18.2	81.8	77
06009	.0	.0	.0	4.8	10.8	3.0	2.4	.0	.0	1.2	22.9	77.1	83
12015	.0	.0	.0	7.2	13.0	2.4	7.2	.0	.0	.0	30.4	69.6	69
18021	.0	.0	.0	7.4	13.0	3.7	3.7	.0	.0	.0	27.8	72.2	54
TOT	0	0	0	16	32	10	10	0	0	1	69	214	283
PCT	.0	.0	.0	5.7	11.3	3.5	3.5	.0	.0	.4	24.4	75.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	.0	.0	.0	.0	49.0	51.0	206
06009	.0	.0	.0	.0	59.0	41.0	339
12015	.0	.3	.0	.0	53.1	46.4	196
18021	.0	.7	.0	.0	63.3	34.0	297
TOT	0	3	0	0	599	436	1038
PCT	.0	.3	.0	.0	57.7	42.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	4.1	14.9	81.1	74
06009	.0	.0	5.3	19.7	75.0	76
12015	.0	.0	7.3	23.9	68.7	67
18021	.0	.0	7.8	21.6	70.6	51
TOT	0	0	16	53	199	268
PCT	.0	.0	6.0	19.8	74.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.1	.0	.0	.0	.0	.0	1	.1
80/84	.0	.0	.0	.1	.5	.5	.4	.0	12	1.5
75/79	.0	.1	.1	2.6	4.6	9.3	6.2	1.4	189	24.3
70/74	.0	.0	1.8	6.2	14.4	13.6	12.0	6.6	424	54.5
65/69	.0	.0	.5	2.1	3.7	4.4	3.7	1.8	126	16.2
60/64	.0	.0	.1	.5	1.0	.6	.4	.1	22	2.8
55/59	.0	.0	.0	.0	.0	.0	.4	.1	4	.5
TOTAL	0	1	21	89	189	221	179	78	778	100.0
PCT	.0	.1	2.7	11.4	24.3	28.4	23.0	10.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.1	.0	.0	.0
.2	.0	.1	.2	.1	.0	.2	.5	.0	.3
1.8	2.5	4.3	6.3	3.1	1.9	1.1	2.4	.0	.9
2.8	3.3	7.0	18.7	10.3	5.6	1.5	2.9	.0	2.3
.4	.1	.8	3.2	5.5	3.1	1.2	.4	.0	1.4
.0	.0	.1	.5	.7	1.2	.3	.0	.0	.1
.0	.0	.0	.0	.1	.3	.0	.0	.0	.1
5.2	5.9	12.2	29.0	19.9	12.1	4.4	6.2	.0	5.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	85	82	79	73	67	64	60	73.3	259
06009	84	80	78	73	66	63	61	72.7	400
12015	78	77	76	72	67	62	60	71.8	233
18021	80	79	76	72	65	59	57	71.1	361
TOT	85	80	78	73	66	61	57	72.2	1253

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	13.7	31.1	27.3	21.1	6.8	72	161
06009	.0	18.6	23.5	29.9	21.2	6.8	72	264
12015	.0	13.5	23.1	30.1	22.4	10.9	74	196
18021	.0	11.8	20.6	28.1	25.0	14.5	75	228
TOT	0	119	195	234	182	79	73	809

PERIOD: (PRIMARY) 1921-1970
(OVER-ALL) 1881-1970

MAY

AREA 0004 ROCKHAMPTON
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
7/8	.0	.0	.0	.0	.1	.2	.1	.0	4	.0	.5
6	.0	.0	.0	.0	.2	.0	.0	.1	3	.0	.4
5	.0	.0	.0	.0	.7	.7	.0	.0	12	.0	1.5
4	.0	.0	.1	.2	1.1	.6	.1	.0	18	.0	2.2
3	.0	.2	.0	.1	1.5	1.6	.6	.0	33	.0	4.0
2	.0	.0	.0	.4	2.2	1.5	.0	.0	33	.0	4.0
1	.0	.0	.1	1.9	3.9	2.3	.0	.0	68	.0	8.2
0	.0	.1	.2	3.7	8.0	1.5	.0	.0	112	.0	13.5
-1	.0	.0	.2	4.0	8.5	.7	.0	.0	111	.0	13.4
-2	.0	.0	.6	6.3	6.5	.2	.0	.0	113	.1	13.5
-3	.0	.0	1.0	5.9	5.6	.0	.0	.0	103	.0	12.5
-4	.0	.1	1.9	5.0	2.5	.0	.0	.0	79	.0	9.6
-5	.0	.0	2.4	3.3	1.2	.0	.0	.0	57	.1	6.8
-6	.0	.4	1.5	1.0	.4	.0	.0	.0	26	.0	3.1
-7/-8	.0	.8	1.5	1.5	.1	.0	.0	.0	32	.0	3.9
-9/-10	.4	.1	1.0	.1	.0	.0	.0	.0	13	.0	1.6
-11/-13	.5	.5	.1	.0	.0	.0	.0	.0	9	.0	1.1
-14/-16	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	7	89	276	351	77	1	827	2	825		
PCT	.8	2.3	10.8	33.4	42.4	9.3	.8	.1	100.0	.2	99.8

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.0	.0	.0	.0	.0	.3	.0	.9	.0	.0	.0	.0	.9
1-2	.0	1.2	.0	.0	.0	.0	1.2	.0	1.5	.4	.0	.0	.0	2.0
3-4	.0	1.2	.0	.0	.0	.0	1.2	.0	.2	.5	.0	.0	.0	.8
5-6	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.8	.0	.0	.0	.0	3.2	.0	2.6	1.4	.0	.0	.0	4.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	.2	.0	.0	.0	.0	.2
1-2	.0	2.2	2.1	.0	.0	.0	4.2	.0	6.6	2.8	.0	.0	.0	9.5
3-4	.4	3.2	4.1	.0	.0	.0	7.7	.0	3.4	8.7	.0	.0	.0	12.1
5-6	.0	.9	3.9	.3	.0	.0	5.1	.0	1.3	7.4	.5	.0	.0	9.2
7	.0	.0	2.0	.8	.0	.0	2.7	.0	.4	2.2	1.5	.0	.0	4.1
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.9	1.4	.0	.0	2.3
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	7.3	12.5	1.4	.0	.0	21.6	.0	12.0	22.0	4.0	.0	.0	37.9

PERIOD: (OVER-ALL) 1963-1970

MAY

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23.25 192.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.8	.0	.0	.0	.0	.8	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	4.8	1.6	.0	.0	.0	6.4	.4	1.5	.4	.0	.0	.0	2.4
3-4	.0	3.3	4.8	.0	.0	.0	8.0	.0	.1	1.0	.0	.0	.0	1.1
5-6	.0	.0	1.3	.4	.0	.0	1.7	.0	.0	.0	.4	.0	.0	.4
7	.0	.0	.7	.8	.0	.0	1.4	.0	.0	.0	.4	.0	.0	.4
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.8	8.4	1.5	.0	.0	18.7	.4	3.0	1.8	.9	.0	.0	6.2

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
1-2	.0	.4	.4	.0	.0	.0	.9	.0	.4	.4	.0	.0	.0	.9	
3-4	.0	1.1	.0	.0	.0	.0	1.1	.0	.2	1.7	.0	.0	.0	2.0	
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.5	.9	.0	.0	.0	2.4	.1	.7	2.2	.0	.0	.0	2.9	97.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.9	4.3	.0	.0	.0	.0	8.2	
1-2	.4	18.6	8.2	.0	.0	.0	27.3	
3-4	.4	12.6	20.8	.0	.0	.0	33.8	
5-6	.0	2.6	13.0	1.7	.0	.0	17.3	
7	.0	.4	5.2	3.5	.0	.0	9.1	
8-9	.0	.0	1.7	1.7	.0	.0	3.5	
10-11	.0	.0	.0	.9	.0	.0	.9	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.8	38.5	48.9	7.8	.0	.0	100.0	231

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	8.6	14.6	4.1	2.2	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	3
6-7	.0	.7	9.7	14.2	7.5	3.4	1.1	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	5
8-9	.0	1.1	1.5	4.5	4.9	3.7	2.2	.4	1.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	55	7
10-11	.0	.7	.0	1.1	1.1	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	6
12-13	.0	.0	1.1	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDET	3.4	.0	.0	.7	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	2
TOTAL	9	30	72	66	46	24	10	1	7	2	0	0	0	0	0	0	0	0	0	267	5
PCT	3.4	11.2	27.0	24.7	17.2	9.0	3.7	.4	2.6	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1921-1971
(OVER-ALL) 1863-1971

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	SPRAY BLWG SNOW	
N	4.1	.0	5.4	.0	.0	.0	.0	9.5	.0	.0	.0	.0	.0	.0	.0	90.5
NE	1.2	22.0	.0	.0	.0	.0	.0	23.2	4.9	.0	.0	.0	.0	.0	.0	72.0
E	8.5	17.6	.9	.0	.0	.0	.0	27.0	2.3	.6	.0	.0	.0	.0	.0	70.2
SE	3.9	13.7	.1	.0	.0	.0	.0	17.6	.9	.3	.0	.0	.0	.0	.0	81.3
S	4.4	3.9	1.0	.0	.0	.0	.0	9.3	2.1	.7	.0	.0	.0	.0	.0	87.4
SW	.3	.0	1.1	.0	.0	.0	.0	1.4	.0	2.2	.0	.0	.5	.0	.0	95.9
W	.0	1.0	.0	.0	.0	.0	.0	1.0	.0	4.2	.0	.0	4.2	.0	.0	90.6
NW	.0	6.1	.0	.0	.0	.0	.0	6.1	.0	.0	.0	.0	.0	.0	.0	93.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.8	.0	.0	.0	.0	.0	.0	11.8	.0	.0	.0	.0	.0	.0	.0	88.2
TOT PCT	3.8	8.8	.6	.0	.0	.0	.0	13.2	1.2	.8	.0	.0	.5	.0	.0	84.5
TOT OBS:	843															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	SPRAY BLWG SNOW	
0000Z	4.0	7.4	.0	.0	.0	.0	.0	11.4	.0	.0	.0	.0	1.1	.0	.0	87.4
0600Z	2.9	8.0	1.1	.0	.0	.0	.0	12.0	2.2	.0	.0	.0	.7	.0	.0	85.1
1200Z	6.2	8.7	.6	.0	.0	.0	.0	15.5	1.9	2.5	.0	.0	.0	.0	.0	80.7
1800Z	3.6	10.5	.4	.0	.0	.0	.0	14.5	.4	1.2	.0	.0	.0	.0	.0	83.9
TOT PCT	4.0	8.7	.6	.0	.0	.0	.0	13.3	1.2	.8	.0	.0	.5	.0	.0	84.4
TOT OBS:	859															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	.8	.5	.1	.0	.0		2.0	8.1		3.6	1.3	2.7	3.0	1.1	1.9	1.8	.4
NE	.6	2.2	.5	.0	.0	.0		3.3	7.0		.6	4.3	3.2	3.0	2.2	3.7	2.9	5.2
E	.9	5.0	4.4	1.1	.0	.0		11.5	11.4		11.7	9.2	11.7	13.0	13.1	13.0	11.7	9.3
SE	1.4	12.6	19.1	4.2	.3	.0		37.7	13.4		37.7	28.9	38.6	42.2	45.1	40.0	38.0	34.8
S	1.4	9.1	10.3	2.1	.2	.0		29.1	12.4		28.9	29.9	25.0	16.7	23.5	17.8	19.3	23.7
SW	.7	4.5	3.4	.3	.1	.0		11.1	11.8		13.6	16.9	8.2	8.9	3.4	10.7	12.1	12.4
W	.8	2.5	1.3	.4	.0	.0		5.0	9.9		1.3	5.4	4.9	6.3	6.0	3.3	4.8	7.8
NW	.9	2.2	.8	.3	.0	.0		4.1	8.4		1.3	2.0	4.3	2.6	4.1	6.7	6.8	3.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0		1.3	2.0	1.4	4.4	1.5	3.0	3.1	1.5
TOT OBS	107	434	471	93	8	0	1113		11.8		77	152	220	135	67	135	192	135
TOT PCT	9.6	39.0	42.3	8.4	.7	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40						00	06	12	18
N	1.2	.5	.3	.0	.0	.0		2.0	8.1	2.1	2.8	1.6	1.2
NE	1.7	1.6	.0	.0	.0	.0		3.3	7.0	3.1	3.1	3.2	3.8
E	2.8	6.2	2.2	.2	.0	.0		11.5	11.4	10.0	12.2	13.0	10.7
SE	5.1	20.4	11.4	.9	.0	.0		37.7	13.4	31.9	40.0	41.7	36.7
S	4.1	13.3	5.2	.4	.0	.0		23.1	12.4	29.6	21.8	19.7	21.9
SW	2.2	6.2	2.5	.2	.0	.0		11.1	11.8	13.8	8.5	8.3	12.2
W	2.1	1.8	1.1	.0	.0	.0		5.0	9.9	4.0	5.4	4.2	5.7
NW	2.2	1.5	.2	.2	.0	.0		4.1	8.4	1.7	3.7	5.8	5.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0	1.7	2.5	2.5	2.4
TOT OBS	265	573	254	21	0	1113			11.8	229	355	202	327
TOT PCT	23.8	51.5	22.8	1.9	.0		100.0			100.0	100.0	100.0	100.0

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HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL DBS
				11-21	22-33	34-47				
000603	1.7	8.3	34.5	44.1	10.0	1.3	.0	12.5	100.0	229
060609	2.5	7.3	41.1	42.8	5.6	.6	.0	11.1	100.0	355
121615	2.5	6.9	40.1	38.1	11.9	.5	.0	11.8	100.0	202
180621	2.4	6.7	39.1	43.1	8.0	.6	.0	11.9	100.0	327
TOT	26	81	434	471	93	8	.0	11.8		1113
PCT	2.3	7.3	39.0	42.3	8.4	.7	.0	100.0		

BY WIND DIRECTION						MEAN
WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	CLOUD COVER
N	1.2	.3	.0	.0		1.6
NE	.1	.6	.8	.0		5.1
E	2.4	2.8	4.0	4.5		5.3
SE	7.8	12.2	10.0	6.7		4.0
S	8.7	6.1	9.5	1.9		4.4
SW	5.9	.9	3.7	1.1		3.3
W	3.2	.4	.0	1.4		2.9
VAR	2.4	.4	.0	.4		2.1
CALM	.0	.0	.0	.0		.0
TOT OBS	.4	.0	.4	.0		3.5
TOT PCT	83	61	73	41	258	4.1
	32.2	23.6	28.3	15.9	100.0	

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH ANY	<5/8 HGT	TOTAL DBS
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		1.5	
.0	.0	.0	.4	.0	.4	.0	.0	.0	.0		.7	
.0	.0	1.0	.3	2.8	.8	.4	.0	.3	.3		7.8	
.0	.4	.7	3.3	4.7	1.2	.0	.4	.1	.1		25.9	
.0	.4	1.0	2.2	4.7	.4	.4	.0	.0	.0		17.2	
.4	.0	.2	1.2	.6	.5	.0	.0	.0	.4		8.3	
.0	.0	.3	.4	.0	.7	.0	.0	.0	.0		3.6	
.4	.0	.0	.0	.0	.0	.0	.0	.0	.0		2.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.8	
.2	.2	.0	20	33	10	2	1	1	.2		177	258
.8	.8	3.1	7.8	12.8	3.9	.8	.4	.4	.8		68.6	100.0

CEILING (FET)	VSBY (NM)							
	■ OR >10	■ OR >5	■ OR >2	■ OR >1	■ OR >1/2	■ OR >1/4	■ OR >50YD	■ OR >0
■ OR >6500	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
■ OR >5000	1.2	1.6	1.6	1.6	1.6	1.6	1.6	1.6
■ OR >3500	1.9	2.3	2.3	2.3	2.3	2.3	2.3	2.3
■ OR >2000	5.9	6.2	6.2	6.2	6.2	6.2	6.2	6.2
■ OR >1000	17.1	18.3	18.7	18.7	18.7	18.7	18.7	18.7
■ OR >600	21.8	26.1	26.5	26.5	26.5	26.5	26.5	26.5
■ OR >300	22.6	27.6	28.4	29.6	29.6	29.6	29.6	29.6
■ OR >150	22.6	28.0	29.2	30.4	30.4	30.4	30.4	30.4
■ OR > 0	22.6	28.4	29.6	31.1	31.1	31.1	31.1	31.1
TOTAL	58	73	76	80	80	80	80	80

PCT FREQ NH <5/01 68.9

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL 005
9.1	16.1	13.2	13.0	11.8	10.8	6.6	7.3	7.7	.3	287

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.3	.1	.0	.0	.0	.1	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.1	.1	.2	.0	.0	.0	.4	
	TOT %	.0	.0	.3	.1	.1	.1	.2	.1	.0	.0	.8	
2<5	PCP	.0	.0	.0	.4	.1	*	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.4	.2	*	.0	.0	.0	.0	.6	
5<10	PCP	.1	.5	2.3	5.7	1.8	.1	.1	.2	.0	.2	11.0	
	NO PCP	1.4	1.4	3.6	18.4	12.7	7.1	3.5	3.0	.0	1.4	52.6	
	TOT %	1.5	2.0	5.8	24.1	14.5	7.2	3.6	3.2	.0	1.7	63.6	
10+	PCP	.1	*	.2	.5	.4	.0	.0	.0	.0	.0	1.2	
	NO PCP	.6	.4	4.1	12.3	9.0	3.6	1.9	1.5	.0	.4	33.8	
	TOT %	.7	.5	4.3	12.8	9.4	3.6	1.9	1.5	.0	.4	35.0	
TOT OBS													843
TOT PCT		2.2	2.4	10.4	37.3	24.2	10.9	5.7	4.8	.0	2.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	11-21	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	.3	
	22+	.0	.0	.3	.1	.0	.0	.0	.1	.0	.0	.4	
	TOT %	.0	.0	.3	.2	.1	.1	.2	.1	.0	.0	.9	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.3	.2	*	.0	.0	.0	.0	.6	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.4	.2	*	.0	.0	.0	.0	.7	
5<10	0-3	.6	.2	.8	.8	.7	.5	.5	.9	.0	1.6	6.5	
	4-10	.6	1.6	2.4	6.1	4.2	2.9	1.9	1.6	.0	.0	21.2	
	11-21	.3	.2	1.6	12.5	7.6	3.3	.8	.3	.0	.0	26.7	
	22+	.0	.0	.7	3.2	1.1	.1	.1	.1	.0	.0	5.3	
	TOT %	1.4	2.0	5.5	22.6	13.6	6.7	3.3	3.0	.0	1.6	59.7	
10+	0-3	.1	.1	.2	.5	.6	.3	.1	.0	.0	.8	2.5	
	4-10	.4	.5	1.7	4.8	4.7	2.3	.7	.7	.0	.0	15.7	
	11-21	.2	.2	2.2	7.5	3.5	2.0	.7	.6	.0	.0	16.8	
	22+	.1	.0	.2	1.2	1.5	.2	.3	.1	.0	.0	3.7	
	TOT %	.8	.7	4.3	14.0	10.3	4.8	1.7	1.4	.0	.8	38.8	
TOT OBS													903
TOT PCT		2.2	2.7	10.1	37.2	24.1	11.6	5.3	4.5	.0	2.3	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY MGT	TOTAL OBS
00003	.0	.0	2.6	7.9	15.8	1.3	.0	.0	.0	.0	27.6	72.4	76
06009	1.2	.0	2.5	6.2	14.8	6.2	2.5	1.2	1.2	.0	35.8	64.2	81
12015	.0	1.6	4.8	9.7	4.8	3.2	.0	.0	.0	1.6	25.8	74.2	62
18021	1.8	1.8	1.8	5.5	10.9	3.6	.0	.0	.0	1.8	27.3	72.7	55
TOT	2	2	8	20	33	10	2	1	1	2	81	193	274
PCT	.7	.7	2.9	7.3	12.0	3.6	.7	.4	.4	.7	29.6	70.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	1.1	1.1	46.0	51.9	187
06009	.0	.0	1.3	.7	61.3	36.7	297
12015	.0	.0	.6	.6	57.9	40.9	171
18021	.0	.0	.4	.4	70.8	28.4	264
TOT	0	0	8	6	554	351	919
PCT	.0	.0	.9	.7	60.3	38.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING MGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	2.7	12.3	16.4	71.2	73
06009	1.3	3.9	10.4	26.0	63.6	77
12015	.0	7.1	19.6	10.7	69.6	56
18021	2.0	5.9	11.8	17.6	70.6	51
TOT	2	12	34	47	176	257
PCT	.8	4.7	13.2	18.3	68.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.1	.1	.0	.0	.0	2	.3
75/79	.0	.0	.1	.1	1.1	.8	.4	1.0	26	3.7
70/74	.0	.0	1.1	4.8	10.8	12.0	8.1	7.9	316	44.8
65/69	.0	.3	1.7	4.2	8.1	11.5	12.9	5.9	315	44.6
60/64	.0	.0	.1	.6	1.3	2.0	2.1	.3	45	6.4
55/59	.0	.0	.0	.0	.0	.1	.0	.1	2	.3
TOTAL	0	2	22	70	151	187	166	108	706	100.0
PCT	.0	.3	3.1	9.9	21.4	26.5	23.5	15.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0
75/79	.3	1.0	.7	.9	.7	.0	.0	.1	.0	.0
70/74	1.3	1.5	6.7	18.8	8.4	3.2	1.5	2.4	.0	1.0
65/69	.1	.2	3.6	16.6	12.7	6.2	3.0	1.4	.0	.8
60/64	.0	.0	.2	1.8	1.7	1.4	.8	.1	.0	.3
55/59	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
TOTAL	1.8	2.8	11.3	38.1	23.6	10.9	5.2	4.0	.0	2.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	77	75	70	63	61	56	70.0	225
06009	79	78	75	70	65	61	60	70.0	355
12015	81	73	72	69	64	60	60	68.7	202
18021	79	75	73	68	62	59	57	68.2	331
TOT	81	77	74	69	63	60	56	69.2	1113

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	13.4	26.8	29.6	15.5	14.8	73	142		
06009	.0	15.8	21.9	28.5	21.1	12.7	73	228		
12015	.0	11.8	21.3	27.9	22.8	16.2	75	136		
18021	.0	11.5	17.2	20.1	33.0	18.2	77	209		
TOT	0	95	153	187	170	110	75	715		

JUNE

PERIOD: (PRIMARY) 1921-1971
(OVER-ALL) 1863-1971

TABLE 17

AREA 0004 ROCKHAMPTON
23.25 152.0EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
9/10	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
7/8	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
5	.0	.0	.0	.0	.4	.3	.3	.0	7	.0	.9
4	.0	.0	.0	.0	.1	.8	.3	.0	9	.0	1.2
3	.0	.0	.0	.1	1.2	1.1	.3	.0	20	.0	2.7
2	.0	.0	.0	.3	1.7	1.7	.1	.1	30	.0	4.0
1	.0	.0	.1	.7	3.1	1.9	.0	.0	43	.0	5.8
0	.0	.0	.0	1.7	6.4	2.5	.0	.0	80	.0	10.7
-1	.0	.0	.1	2.9	9.0	1.7	.0	.0	109	.0	13.8
-2	.0	.1	.1	4.4	9.0	.8	.0	.0	108	.0	14.5
-3	.0	.0	.4	4.2	6.2	.1	.0	.0	81	.0	10.9
-4	.0	.0	1.2	5.1	4.7	.1	.0	.0	83	.0	11.1
-5	.0	.0	.4	4.6	2.9	.1	.0	.0	60	.0	8.0
-6	.0	.1	.8	2.4	1.6	.0	.0	.0	37	.0	5.0
-7/-8	.0	.1	1.5	4.7	.7	.0	.0	.0	32	.0	7.0
-9/-10	.0	.0	1.9	.5	.1	.0	.0	.0	19	.0	2.5
-11/-13	.1	.7	.8	.0	.0	.0	.0	.0	12	.0	1.6
TOTAL	1	8	55	236	332	84	2	746	0	746	
PCT	.1	1.1	7.4	31.6	47.2	11.3	1.1	.3	100.0		100.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.3	.0	.0	.0	.0	.0	.3	.3	.1	.4	.0	.0	.0	.0	.0	.5
3-4	.0	.4	.0	.0	.0	.0	.4	.4	.0	.9	.4	.0	.0	.0	.0	1.3
5-6	.0	.0	.3	.0	.0	.0	.3	.3	.0	.0	.2	.0	.0	.0	.0	.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.4	.3	.0	.0	.0	1.1	1.1	.1	1.3	.6	.0	.0	.0	.0	2.0

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.8	.0	.0	.0	.0	.8	.8	.0	.2	.0	.0	.0	.0	.0	.5
1-2	.0	1.7	.0	.0	.0	.0	1.7	1.7	.9	5.4	5.6	.0	.0	.0	.0	11.8
3-4	.0	1.6	4.6	.7	.0	.0	6.2	6.2	.0	2.6	3.6	.1	.0	.0	.0	6.3
5-6	.0	1.2	3.4	.8	.0	.0	5.4	5.4	.0	.6	9.9	1.2	.0	.0	.0	11.7
7	.0	.0	.4	.0	.0	.0	.4	.4	.0	.0	1.3	1.3	.0	.0	.0	2.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.9	.0	.0	1.6
12	.0	.0	.0	.4	.0	.0	.4	.4	.0	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.6	.0	.0	.6	.6	.0	.0	.0	1.1	.0	.0	.0	1.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4	.0	.0	.9
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.3	8.5	1.8	.0	.0	15.6	15.6	.9	9.1	21.2	4.8	1.4	.0	.0	37.4

PERIOD: (OVER-ALL) 1963-1971

JUNE

AREA 0004 ROCKHAMPTON
23.25 152.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.9	3.6	1.7	.0	.0	.0	6.2	.4	3.2	.0	.0	.0	.0	3.6	.0
3-4	.4	3.3	1.7	.8	.0	.0	6.4	.0	.4	3.4	.0	.0	.0	3.9	.0
5-6	.0	.8	3.1	1.5	.0	.0	5.4	.0	.0	2.4	.0	.0	.0	2.4	.0
7	.0	.0	.4	.8	.0	.0	1.2	.0	.0	.0	.1	.4	.0	.5	.0
8-9	.0	.0	.8	.3	.0	.0	1.1	.0	.0	.2	.0	.0	.0	.2	.0
10-11	.0	.0	.4	1.1	.3	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.4	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.3	8.8	6.2	5.3	.8	.0	24.2	.4	3.6	6.0	.1	.4	.0	10.6	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.5	.8	.0	.0	.0	2.3	.0	.4	.1	.0	.0	.0	.5	.0
3-4	.0	.0	.8	.0	.0	.0	.8	.0	.9	.9	.4	.0	.0	2.1	.0
5-6	.0	.0	.0	.4	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4	.0
7	.0	.0	.4	.3	.0	.0	.8	.0	.0	.0	.1	.0	.0	.1	.0
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.4	.0	.0	.4	.0
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.5	2.3	1.2	.0	.0	4.9	.0	1.3	1.4	1.0	.0	.0	3.6	99.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	.4	2.1	.0	.0	.0	.0	2.6	
1-2	2.6	16.3	8.2	.0	.0	.0	27.0	
3-4	.4	10.3	15.5	1.3	.0	.0	27.5	
5-6	.0	2.6	19.7	3.9	.0	.0	26.2	
7	.0	.0	2.6	2.6	.4	.0	5.6	
8-9	.0	.0	1.7	.9	.0	.0	2.6	
10-11	.0	.0	.4	2.6	.9	.0	3.9	
12	.0	.0	.0	.4	.4	.0	.9	
13-16	.0	.0	.0	2.1	.4	.0	2.6	
17-19	.0	.0	.4	.4	.4	.0	1.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.4	31.3	48.5	14.2	2.6	.0	100.0	233

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	8.8	13.0	5.3	3.8	1.1	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	89	4
6-7	.0	2.3	7.6	11.5	9.9	2.3	1.9	.4	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	6
8-9	.0	.0	2.3	3.4	3.4	2.3	.8	2.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	8
10-11	.0	.8	.0	1.9	.0	1.5	.0	1.1	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	8
12-13	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	15
>13	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
INDET	.4	.0	.4	.8	.4	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	262	6
TOTAL	2	31	61	60	46	22	20	6	10	3	1	0	0	0	0	0	0	0	0	100.0	
PCT	.8	11.8	23.3	22.9	17.6	8.4	7.6	2.3	3.8	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0		

PERIOD: (PRIMARY) 1919-1969
(OVER-ALL) 1863-1969

JULY

AREA 0004 ROCKHAMPTON
23.25 152.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SNOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	5.3	.0	.0	.0	.0	.0	.0	5.3	5.3	.0	.0	.0	.0	.0	89.5
NE	3.2	14.3	.0	.0	.0	.0	.0	17.5	4.0	.0	3.2	.0	.0	.0	75.4
E	4.2	6.1	.0	.0	.0	.0	.0	10.3	2.0	.0	.0	.0	.0	.0	87.7
SE	3.7	6.0	.0	.0	.0	.0	.0	9.7	1.1	.0	.5	.0	.0	.0	88.7
S	5.4	1.9	1.3	.0	.0	.0	.0	8.5	.6	.0	.0	.0	2.5	.0	88.3
SW	3.0	1.0	.0	.0	.0	.0	.0	3.9	.0	1.0	1.0	.0	.0	.0	94.1
W	3.2	4.3	.0	.0	.0	.0	.0	7.4	.0	.0	.0	.0	.0	.0	92.6
NW	3.6	2.4	.0	.0	.0	.0	.0	6.0	.0	.0	2.4	.0	.0	.0	91.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	6.1	6.1	3.0	.0	.0	.0	.0	15.2	.0	.0	.0	.0	.0	.0	84.8
TOT PCT	4.1	4.3	.4	.0	.0	.0	.0	8.8	1.0	.1	.6	.0	.6	.0	88.9
TOT OBS:	705														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 00 TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.6	3.9	.0	.0	.0	.0	.0	6.5	.6	.0	.0	.0	.6	.0	92.3
06009	4.7	3.4	.9	.0	.0	.0	.0	9.0	1.3	.0	.9	.0	.9	.0	88.0
12015	5.8	5.0	.0	.0	.0	.0	.0	10.8	.7	.0	1.4	.0	.7	.0	86.3
18021	2.8	4.7	.9	.0	.0	.0	.0	8.4	.9	.5	.9	.0	.0	.0	89.3
TOT PCT TOT OBS:	3.9 742	4.2	.5	.0	.0	.0	.0	8.6	.9	.1	.8	.0	.5	.0	88.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	.4	1.9	.6	.0	.0	.0		2.9	7.4	1.3	2.6	2.6	3.0	3.0	5.5	2.5	2.5	
NE	1.0	3.7	1.1	.0	.0	.0		5.8	7.4	5.6	6.3	3.2	5.9	3.0	8.3	6.0	8.7	
E	1.4	7.6	3.6	.7	.2	.0		13.5	10.0	18.1	12.5	14.2	13.1	16.8	13.3	14.6	7.4	
SE	1.8	11.8	10.4	2.0	.3	.0		26.3	11.6	23.3	30.9	28.8	25.4	28.0	18.8	24.0	27.7	
S	1.6	9.1	9.5	1.3	.0	.0		21.5	11.8	27.3	20.6	25.4	16.5	22.0	16.1	19.2	25.6	
SW	1.2	6.3	5.6	.6	.0	.0		13.6	10.8	14.8	14.0	12.2	14.8	6.7	14.2	15.0	14.7	
W	1.0	3.7	1.6	.1	.0	.0		6.4	8.5	3.6	4.4	6.2	7.6	8.6	7.3	7.0	6.4	
NW	1.5	3.0	1.0	.0	.0	.0		5.4	7.2	1.3	4.4	5.3	7.6	4.5	8.3	5.9	4.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.6							4.6	.0	2.6	4.4	2.1	5.9	7.5	8.3	5.6	2.5	
TOT OBS	143	469	332	47	4	0	995		10.0	76	136	190	118	67	109	178	121	
TOT PCT	14.4	47.1	33.4	4.7	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	1.5	1.4	.1	.0	.0			2.9	7.4		2.1	2.8	4.5	2.5
NE	2.9	2.7	.2	.0	.0			5.8	7.4		6.0	4.2	6.3	7.1
E	4.9	6.4	2.0	.2	.0			13.5	10.0		14.5	13.8	14.6	11.7
SE	6.4	13.9	5.3	.7	.0			26.3	11.6		28.9	27.5	22.3	25.5
S	5.2	10.1	6.0	.3	.0			21.5	11.8		23.0	22.0	16.3	21.8
SW	3.6	7.4	2.6	.0	.0			13.6	10.8		14.3	13.2	11.4	14.9
W	2.6	3.2	.5	.1	.0			6.4	8.5		4.1	6.7	7.8	6.8
NW	2.3	2.9	.2	.0	.0			5.4	7.2		3.3	6.2	6.8	5.4
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	4.6							4.6	.0		3.8	3.6	8.0	4.3
TOT OBS	399	478	166	12	0	995			10.0		212	308	176	299
TOT PCT	34.1	48.0	16.7	1.2	.0			100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1919-1969
(OVER-ALL) 1963-1969

JULY

AREA 0004 ROCKHAMPTON
23.25 152.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	3.8	5.2	45.3	40.6	5.2	.0	.0	10.8	100.0	212
0600	3.6	11.0	52.9	27.9	3.9	.6	.0	9.6	100.0	308
1200	8.0	11.9	43.2	31.3	5.1	.6	.0	9.4	100.0	176
1800	4.3	10.4	44.8	35.1	5.0	.3	.0	10.2	100.0	299
TOT	46	97	469	332	47	4	.0	10.0		995
PCT	4.6	9.7	47.1	33.4	4.7	.4	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.1	.4	.4	.0		2.6
NE	.4	.4	.2	.8		5.3
E	3.9	2.6	6.8	3.4		4.8
SE	9.2	7.6	10.4	3.4		4.2
S	11.5	6.2	9.8	2.3		3.0
SW	7.4	2.0	1.7	.4		2.2
W	4.3	.7	1.4	.0		2.1
NW	3.2	.4	.0	.0		.9
VAR	.0	.0	.0	.0		.0
CALM	3.0	.0	.4	.0		1.3
TOT OBS	116	53	67	27	263	3.4
TOT PCT	44.1	20.2	25.5	10.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH < 5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	1.5	
NE	.0	.0	.4	.1	.0	.4	.0	.0	.0	.0	.9	
E	.0	.0	.7	1.3	3.3	1.0	.8	.0	.0	.0	9.6	
SE	.0	.0	1.1	3.2	3.7	1.3	.0	.0	.0	.0	22.2	
S	.0	.8	.0	1.0	1.7	.3	.0	.0	.4	.4	19.3	
SW	.4	.0	.0	.1	.0	.4	.0	.0	.0	.0	10.3	
W	.0	.0	.0	.0	.4	.8	.0	.0	.0	.0	5.2	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	
TOT OBS	1	2	3	15	24	12	3	0	1	1	201	263
TOT PCT	.4	.8	1.1	5.7	9.1	4.6	1.1	.0	.4	.4	76.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	> 10	> 5	> 2	> 1	> 1/2	> 1/4	> 50YD	> 0
= OR > 500	.7	.7	.7	.7	.7	.7	.7	.7
= OR > 1000	.7	.7	.7	.7	.7	.7	.7	.7
= OR > 3500	1.5	1.9	1.9	1.9	1.9	1.9	1.9	1.9
= OR > 2000	5.9	6.3	6.3	6.3	6.3	6.3	6.3	6.3
= OR > 1000	12.6	14.5	14.9	14.9	15.2	15.2	15.2	15.2
= OR > 600	16.0	19.0	20.1	20.4	20.8	20.8	20.8	20.8
= OR > 300	16.4	20.1	21.2	21.6	21.9	21.9	21.9	21.9
= OR > 150	16.4	20.1	21.6	21.9	22.3	22.3	22.7	22.7
= OR > 0	16.7	20.4	21.9	22.3	22.7	22.7	23.0	23.0
TOTAL	45	55	59	60	61	61	62	62

TOTAL NUMBER OF OBS: 269

PCT FREQ NH < 5/8: 77.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	17.0	19.9	17.0	14.1	12.4	6.0	7.8	3.9	5.7	283

JULY

PERIOD: (PRIMARY) 1919-1969
(OVER-ALL) 1863-1969AREA 0004 ROCKHAMPTON
23.25 192.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	1.4	2.7	10.3	5.4	1.4	.0	.0	.0	21.6	78.4	74
06009	1.3	.0	2.6	10.3	7.7	3.8	1.3	.0	1.3	1.3	29.5	70.5	78
12015	.0	1.6	.0	4.8	4.8	1.6	.0	.0	.0	.0	12.9	87.1	62
18021	.0	1.6	.0	3.1	10.9	6.3	1.6	.0	.0	.0	23.4	76.6	64
TOT	1	2	3	15	24	12	3	0	1	1	62	216	278
PCT	.4	.7	1.1	5.4	8.6	4.3	1.1	.0	.4	.4	22.3	77.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.6	.6	1.2	40.1	57.6	172
06009	.4	1.9	.8	.4	55.0	41.6	262
12015	1.3	2.0	.7	1.3	45.7	49.0	151
18021	.8	1.6	.8	.4	57.4	39.0	249
TOT	5	13	6	6	425	379	834
PCT	.6	1.6	.7	.7	51.0	45.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	1.4	5.6	16.9	77.5	71
06009	1.3	3.9	14.3	15.6	70.1	77
12015	.0	1.7	10.2	6.8	83.1	59
18021	.0	3.2	6.5	17.7	75.8	62
TOT	1	7	25	39	205	269
PCT	.4	2.6	9.3	14.5	76.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
75/79	.0	.0	.2	.2	.3	.9	.0	.2	10	1.7
70/74	.0	.0	.7	3.5	5.6	6.9	3.0	4.0	136	23.6
65/69	.0	.2	2.8	7.6	11.3	13.4	8.9	8.0	300	52.1
60/64	.0	.0	.9	3.0	4.3	2.6	4.0	1.6	94	16.3
55/59	.0	.0	.0	.3	.5	1.0	1.4	.3	21	3.6
50/54	.0	.0	.0	.0	.0	.2	1.9	.3	14	2.4
TOTAL	0	1	26	84	127	144	110	84	576	100.0
PCT	.0	.2	4.5	14.6	22.0	25.0	19.1	14.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
75/79	.2	.3	.4	.2	.3	.0	.0	.2	.0	.2
70/74	1.3	1.9	5.9	6.6	3.0	.7	.7	2.2	.0	1.4
65/69	1.6	2.1	6.9	17.6	11.6	4.4	2.0	2.9	.0	2.8
60/64	.0	.0	.3	1.6	5.4	6.1	1.6	.7	.0	.5
55/59	.0	.0	.0	.0	1.2	2.2	.3	.0	.0	.0
50/54	.0	.0	.0	.0	.9	1.2	.3	.0	.0	.0
TOTAL	3.1	4.4	13.5	26.2	22.3	14.6	5.1	5.9	.0	4.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	78	75	73	68	60	58	58	67.7	213
06009	79	75	73	68	61	56	51	67.6	320
12015	76	74	72	67	61	53	51	66.9	178
18021	80	72	71	67	56	51	51	65.6	307
TOT	80	75	72	67	60	53	51	66.9	1018

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	25.2	24.4	29.1	9.4	11.8	70	127
06009	.0	17.4	20.7	25.5	16.8	19.6	74	184
12015	.0	16.5	23.5	27.0	18.3	14.8	73	115
18021	.0	16.6	19.4	21.1	30.3	12.6	75	175
TOT	0	112	130	152	117	90	73	601

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PERIOD: (PRIMARY) 1919-1969
(OVER-ALL) 1863-1969

TABLE 17

AREA 0004 ROCKHAMPTON
23.25 152.2EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT FOG	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
9/10	.0	.0	.0	.0	.0	.5	.0	.2	4	.0	.6
7/8	.0	.0	.0	.0	.3	.2	.0	.2	4	.0	.6
6	.0	.0	.0	.0	.5	.2	.6	.2	9	.0	1.4
5	.0	.0	.0	.0	.0	.6	.0	.0	4	.0	.6
4	.0	.0	.0	.0	.8	.5	.3	.2	11	.0	1.7
3	.0	.0	.0	.0	.6	1.7	.9	.0	21	.2	3.1
2	.0	.0	.0	.2	1.1	1.6	.8	.0	23	.0	3.6
1	.0	.0	.0	.5	2.3	3.4	1.1	.0	47	.0	7.3
0	.0	.0	.3	.6	4.0	5.0	.3	.0	66	.2	10.1
-1	.0	.0	.0	.3	4.0	7.6	.6	.0	81	.2	12.5
-2	.0	.0	.2	.9	4.7	5.6	.3	.0	75	.0	11.7
-3	.0	.0	.2	1.6	5.3	3.0	.2	.0	65	.0	10.1
-4	.0	.0	.8	1.9	5.8	1.1	.2	.0	62	.3	9.3
-5	.0	.2	.6	1.9	4.0	1.1	.0	.0	50	.0	7.8
-6	.0	.0	.6	.6	2.5	.3	.0	.0	26	.0	4.0
-7/-8	.2	1.2	1.4	3.9	.9	.5	.0	.0	52	.2	7.9
-9/-10	.8	.6	.5	2.2	.5	.0	.0	.0	29	.0	4.5
-11/-13	.2	.2	.6	.8	.0	.0	.0	.0	11	.0	1.7
-14/-16	.0	.0	.2	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	7	14	34	98	240	210	35	4	642	6	636
PCT	1.1	2.2	5.3	15.3	37.4	32.7	5.5	.6	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	.9	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	.0	.9
3-4	.0	.5	.5	.0	.0	.0	.9	.0	.8	.5	.0	.0	.0	1.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.4	.5	.0	.0	.0	1.8	.0	2.0	.9	.0	.0	.0	2.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.9
1-2	.0	6.1	.5	.0	.0	.0	6.6	.0	6.5	2.0	.0	.0	.0	8.4
3-4	.0	3.0	2.6	.0	.0	.0	5.6	.0	3.5	4.3	1.5	.0	.0	9.2
5-6	.0	1.4	3.1	.0	.0	.0	4.5	.0	.5	5.2	.6	.0	.0	6.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	2.0	.0	.0	3.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.1	.0	.0	.6
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	10.5	7.1	.0	.0	.0	17.6	.0	11.4	13.6	4.1	.0	.0	29.1

PERIOD: (OVER-ALL) 1963-1969

JULY

AREA 0004 ROCKHAMPTON
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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	.6	.0	.0	.0	.0	.6	
1-2	.0	5.2	2.2	.0	.0	.0	7.4	.1	1.7	.5	.0	.0	.0	2.3	
3-4	.0	2.6	5.9	.3	.0	.0	8.9	.0	2.3	2.9	.5	.0	.0	5.6	
5-6	.0	.0	3.8	1.3	.0	.0	5.1	.0	.5	1.8	1.0	.0	.0	3.3	
7	.0	.0	1.5	.3	.0	.0	1.8	.0	.0	.5	.0	.0	.0	.5	
8-9	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.5	.0	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	8.5	13.4	2.8	.0	.0	24.7	.1	5.1	5.6	2.0	.0	.0	12.8	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.9	.9	.0	.0	.0	.0	1.8	.0	1.4	.0	.0	.0	.0	1.4	
1-2	.3	.8	.5	.0	.0	.0	1.6	.0	.9	.0	.0	.0	.0	.9	
3-4	.0	.5	1.4	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.3	.3	.0	.0	.7	.0	.0	.5	.0	.0	.0	.5	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.3	2.2	2.2	.3	.0	.0	6.0	.0	3.2	.5	.0	.0	.0	3.7	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.2	4.1	.0	.0	.0	.0	7.3	
1-2	.5	22.8	5.5	.0	.0	.0	28.8	
3-4	.0	13.7	17.8	2.3	.0	.0	33.8	
5-6	.0	2.7	14.2	3.2	.0	.0	20.1	
7	.0	.0	4.1	2.3	.0	.0	6.4	
8-9	.0	.5	.0	.0	.0	.0	.5	
10-11	.0	.0	.9	.9	.0	.0	1.8	
12	.0	.0	.5	.0	.0	.0	.5	
13-16	.0	.0	.5	.5	.0	.0	.9	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.7	43.8	43.4	9.1	.0	.0	100.0	219

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.6	11.5	13.0	5.5	4.3	1.2	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	102	4
6-7	.0	1.6	8.3	11.9	7.1	5.5	2.0	.8	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	99	6
8-9	.0	.0	.8	4.0	4.3	.4	.8	2.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	7	7
10-11	.0	.0	.4	.8	.4	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	7
12-13	.0	.0	.4	.4	.8	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	3
INDET	1.2	.0	.4	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	253	5
TOTAL	12	33	59	59	43	21	9	9	7	0	0	1	0	0	0	0	0	0	0	100.0	
PCT	4.7	13.0	23.3	23.3	17.0	8.3	3.6	3.6	2.8	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0		

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1863-1969

AUGUST

AREA 0004 ROCKHAMPTON
23.25 152.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	.0	5.6	2.5	.0	.0	.0	.0	8.1	1.5	1.5	2.0	.0	.0	.0	86.9
NE	3.6	.4	2.7	.0	.0	.0	.0	6.7	1.8	.0	1.8	.0	.0	.0	89.8
E	1.7	2.6	.6	.0	.0	.0	.0	4.9	4.0	.0	.9	.0	.0	.0	90.2
SE	1.6	4.5	1.1	.0	.0	.0	.0	7.2	.7	.0	2.6	.0	1.0	.0	88.5
S	.7	1.4	1.0	.0	.0	.0	.0	3.1	.7	1.0	1.4	.0	.0	.0	93.8
SW	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.0	3.2	.0	.0	.0	94.8
W	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	.0	.0	.0	.0	97.5
NW	5.0	2.5	.6	.0	.0	.0	.0	8.1	.6	3.1	.0	.0	.0	.0	88.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	5.3	.0	.0	.0	.0	.0	.0	5.3	.0	.0	.0	.0	5.3	.0	89.5
TOT PCT	1.6	2.6	1.0	.0	.0	.0	.0	5.2	1.6	.4	1.7	.0	.4	.0	90.6
TOT OBS:	689														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	1.9	2.5	.6	.0	.0	.0	.0	5.0	.6	.0	1.2	.0	.6	.0	92.5
06009	1.3	3.5	1.3	.0	.0	.0	.0	6.2	1.3	.9	1.3	.0	.4	.0	89.9
12015	1.4	1.4	.0	.0	.0	.0	.0	2.9	1.4	.7	.7	.0	.0	.0	94.2
18021	1.6	3.6	1.6	.0	.0	.0	.0	6.7	2.6	.0	3.6	.0	.5	.0	86.5
TOT PCT	1.5	2.9	1.0	.0	.0	.0	.0	5.4	1.5	.4	1.8	.0	.4	.0	90.4
TOT OBS:	720														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.0	9.0	2.3	.2	.0	.0		8.4	8.5	5.6	8.7	8.6	9.7	10.8	10.6	7.5	6.6	
NE	1.0	9.7	1.1	.0	.0	.0		7.8	7.2	9.4	5.1	5.0	8.7	9.3	11.2	9.6	7.8	
E	1.6	7.6	6.5	.5	.0	.0		16.1	10.5	17.5	8.7	13.9	17.7	27.8	17.6	17.4	14.6	
SE	1.9	13.6	11.2	1.5	.0	.0		28.1	11.1	35.8	28.0	35.5	27.8	22.8	22.9	23.7	22.7	
S	1.6	7.3	3.8	1.1	.0	.0		15.8	11.0	16.4	24.8	15.5	9.4	8.6	10.6	16.2	21.2	
SW	.9	3.8	4.1	.9	.0	.0		9.7	12.0	9.7	13.0	9.4	7.1	6.5	5.9	10.2	14.1	
W	.6	2.1	1.4	.0	.0	.0		4.1	8.3	4.0	3.9	3.1	3.3	7.4	6.9	3.2	3.0	
NW	.8	5.3	1.0	.1	.1	.0		7.4	8.0	1.6	5.5	8.0	15.3	4.3	11.2	6.3	6.1	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.5							2.5	.0	.0	2.4	1.0	.9	2.5	3.2	5.3	4.0	
TOT OBS	115	480	318	40	1	0	954		9.9	93	127	200	108	81	94	156	99	
TOT PCT	12.1	50.3	33.3	4.2	.1	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	06	12	18	21
N	3.5	4.5	.4	.1	.0		8.4	8.5	7.4	9.0	10.7	7.1		
NE	3.8	3.9	.1	.0	.0		7.8	7.2	6.9	6.3	10.3	8.8		
E	4.8	8.5	2.5	.3	.0		16.1	10.5	12.4	15.2	22.3	16.3		
SE	6.4	16.4	5.0	.3	.0		28.1	11.1	31.3	32.8	22.9	23.3		
S	4.4	7.8	3.5	.2	.0		15.8	11.0	21.3	13.4	9.7	18.2		
SW	2.9	3.3	3.4	.1	.0		9.7	12.0	11.6	8.6	6.1	11.8		
W	2.2	1.5	.4	.0	.0		4.1	8.3	4.0	3.2	7.1	3.2		
NW	3.4	3.6	.2	.1	.0		7.4	8.0	3.9	10.5	8.0	6.2		
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0		
CALM	2.5						2.5	.0	1.4	1.0	2.9	5.1		
TOT OBS	323	472	149	10	0	954		9.9	220	306	175	253		
TOT PCT	33.9	49.5	15.6	1.0	.0		100.0		100.0	100.0	100.0	100.0		

AUGUST

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1867-1969

AREA 0004 ROCKHAMPTON
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	1.4	6.8	50.0	37.3	4.5	.0	.0	.0	10.5	100.0	220
06009	1.0	9.8	49.3	34.0	5.9	.0	.0	.0	10.2	100.0	306
12015	2.9	10.9	49.1	33.7	2.9	.6	.0	.0	9.9	100.0	175
18021	5.1	10.7	52.6	28.9	2.8	.0	.0	.0	9.1	100.0	253
TOT	24	91	480	318	40	1	0	0	9.9		954
PCT	2.5	9.5	50.3	33.3	4.2	.1	.0	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MPAN CLOUD COVER
N	4.9	1.2	.8	.2		2.0
NE	2.9	2.0	3.4	1.0		4.0
E	9.1	4.1	6.5	1.7		3.6
SE	10.1	7.3	7.5	5.7		4.1
S	6.0	3.5	1.6	1.3		3.2
SW	5.8	1.0	1.1	.1		1.9
W	3.6	1.0	.3	.2		2.0
NW	2.7	.6	.1	.3		2.0
VAR	.0	.0	.0	.0		.0
CALM	1.0	.3	1.0	.0		3.8
TOT OBS	144	66	70	33	313	3.3
TOT PCT	46.0	21.1	22.4	10.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.5	.3	.0	.0	.0	.0	.0	.0	6.3
NE	.0	.0	.3	.4	1.4	.6	.3	.0	.0	.0	.0	6.3
E	.0	.0	.0	.6	5.3	.6	.0	.0	.0	.0	.0	14.9
SE	.0	.0	.4	3.3	5.4	.8	1.0	.0	.0	.0	.0	19.8
S	.0	.0	.2	.3	1.6	.5	.0	.0	.0	.0	.0	9.7
SW	.0	.1	.0	.0	.5	.6	.0	.0	.0	.0	.0	6.9
W	.0	.2	.0	.0	.3	.0	.0	.0	.0	.0	.0	4.6
NW	.0	.0	.0	.1	.3	.0	.0	.0	.0	.0	.0	3.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	1.6
TOT OBS	0	1	3	16	47	12	4	0	0	0	0	230
TOT PCT	.0	.3	1.0	5.1	15.0	3.8	1.3	.0	.0	.0	.0	73.5

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.0	.0	.0	.0	.0	.0	.0	.0
>3500	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
>2000	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
>1000	18.9	19.8	20.1	20.1	20.1	20.1	20.1	20.1
>600	22.6	24.2	25.2	25.2	25.2	25.2	25.2	25.2
>300	23.0	25.2	26.1	26.1	26.1	26.1	26.1	26.1
>150	23.0	25.5	26.4	26.4	26.4	26.4	26.4	26.4
>0	23.0	25.5	26.4	26.4	26.4	26.4	26.4	26.4
TOTAL	73	81	84	84	84	84	84	84

TOTAL NUMBER OF OBS: 310

PCT FREQ NH <5/8: 73.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	16.2	21.5	15.9	11.8	7.9	6.8	7.9	4.4	7.6	.0	340

AUGUST

PERIOD: (PRIMARY) 1912-1969
(OVER-ALL) 1863-1969AREA 0004 ROCKHAMPTON
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.1	.1	.8	.2	.3	.0	.0	.0	.0	1.6	
	TOT %	.0	.1	.1	.9	.2	.3	.0	.0	.0	.0	1.7	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
2<5	PCP	.0	.0	.1	.2	.1	.0	.0	.0	.0	.1	.6	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.2	.1	.0	.0	.0	.0	.1	.6	
5<10	PCP	.5	.5	.1	1.3	.2	.0	.0	.5	.0	.0	3.1	
	NO PCP	2.4	2.9	5.4	11.8	7.2	4.2	1.6	3.2	.0	1.2	39.8	
	TOT %	2.9	3.4	5.5	13.1	7.4	4.2	1.6	3.7	.0	1.2	42.9	
10+	PCP	.1	*	.7	.5	.1	.0	.0	.0	.0	.0	1.5	
	NO PCP	4.1	4.6	10.7	15.7	7.4	4.7	2.5	2.1	.0	1.3	53.1	
	TOT %	4.2	4.6	11.4	16.2	7.5	4.7	2.5	2.1	.0	1.3	54.5	
TOT OBS													688
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	4-10	.0	.1	.0	.5	.2	.0	.0	.0	.0	.0	.8	
	11-21	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.1	.9	.2	.3	.0	.0	.0	.0	1.6	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1	
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.3	
2<5	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.3	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.1	.2	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.1	.4	.3	.0	.0	.0	.0	.1	.9	
5<10	0-3	.3	.7	.6	.8	.5	.9	.0	.7	.0	1.2	9.7	
	4-10	1.5	2.3	2.9	6.2	4.1	1.2	.9	2.0	.0	.0	21.1	
	11-21	.8	.4	1.7	5.1	1.8	1.3	.6	.6	.0	.0	12.4	
	22+	.0	.0	.0	.3	.5	.6	.0	.0	.0	.0	1.3	
	TOT %	2.6	3.4	5.2	12.4	6.9	4.0	1.5	3.4	.0	1.2	40.6	
10+	0-3	.7	.6	1.0	1.2	.4	.1	.4	.2	.0	1.2	5.9	
	4-10	2.0	3.2	5.4	7.9	3.2	2.1	1.2	2.1	.0	.0	27.1	
	11-21	1.3	.8	5.5	7.1	3.7	2.5	.8	.5	.0	.0	22.2	
	22+	.2	.0	.0	.3	.2	.3	.0	.2	.0	.0	1.2	
	TOT %	4.3	4.6	11.9	16.5	7.6	4.9	2.4	3.0	.0	1.2	56.4	
TOT OBS													748
TOT PCT													100.0

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PERIOD: (PRIMARY) 1912-1969
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL DBS
00003	.0	.0	1.1	4.3	13.0	4.3	3.3	.0	.0	.0	26.1	73.9	92
06009	.0	.0	2.0	8.9	15.8	4.0	2.0	.0	.0	.0	32.7	67.3	101
12015	.0	.0	.0	2.6	14.5	2.6	.0	.0	.0	.0	19.7	80.3	76
18021	.0	1.6	.0	1.6	12.5	3.1	.0	.0	.0	.0	18.8	81.3	64
TOT	0	1	3	16	47	12	5	0	0	0	84	249	333
PCT	.0	.3	.9	4.8	14.1	3.6	1.5	.0	.0	.0	25.2	74.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL DBS
00003	.0	1.2	.0	.6	35.8	62.4	173
06009	.0	1.6	.4	1.2	43.4	53.4	249
12015	.0	.7	.0	.7	35.2	63.4	145
18021	.5	2.8	.5	.9	50.5	44.8	212
TOT	1	13	2	7	328	428	779
PCT	.1	1.7	.3	.9	42.1	54.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL DBS
00003	.0	1.1	5.7	21.6	72.7	88
06009	.0	2.1	11.5	22.9	65.6	96
12015	.0	.0	2.8	18.1	79.2	72
18021	.0	1.6	4.8	14.5	80.6	62
TOT	0	4	21	63	234	318
PCT	.0	1.3	6.6	19.8	73.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
89/89	.0	.0	.0	.0	.0	.2	.0	.0	1	.2
80/84	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
75/79	.0	.0	.0	.4	.4	.6	.2	.0	8	1.6
70/74	.0	.2	.8	1.6	9.1	10.3	6.9	2.8	160	31.6
65/69	.0	.2	1.6	7.7	10.7	17.2	12.6	5.3	280	55.3
60/64	.0	1.2	.4	2.0	.8	2.2	3.0	.8	52	10.3
55/59	.0	.0	.0	.2	.2	.0	.2	.2	4	.8
TOTAL	0	8	14	60	108	134	116	46	506	100.0
PCT	.0	1.6	2.8	11.9	21.3	30.4	22.9	9.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
89/89	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
80/84	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
75/79	.2	.3	.6	.4	.0	.0	.0	.0	.0	.0
70/74	2.9	2.9	8.3	9.3	3.3	.8	.0	2.2	.0	1.4
65/69	2.0	6.2	8.3	19.8	8.2	3.6	3.0	2.7	.0	1.6
60/64	.0	.2	.2	1.9	4.2	3.1	.7	.0	.0	.0
55/59	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
TOTAL	5.0	9.6	17.5	31.9	15.7	8.0	4.0	4.9	.0	3.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	77	76	74	69	62	56	56	68.9	217
06009	83	76	73	69	63	62	61	68.8	311
12015	80	73	71	68	63	62	62	68.2	174
18021	86	75	72	68	61	57	55	67.4	261
TOT	86	75	73	68	63	60	55	68.3	963

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	19.5	24.4	29.3	21.1	5.7	71			123
06009	.0	19.4	24.2	30.3	16.4	9.7	71			165
12015	.0	13.9	20.8	28.7	30.7	5.9	74			101
18021	.0	12.2	15.3	30.5	29.0	13.0	75			131
TOT	0	86	111	155	122	46	72			520

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PERIOD: (PRIMARY) 1912-1969
(OVER-ALL) 1869-1969AREA 0004 ROCKHAMPTON
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.0	.4	.2	.0	.0	.2	4	.0	.7
6	.0	.0	.0	.2	.4	.5	.4	.0	.0	8	.0	1.4
5	.0	.0	.0	.2	.2	.4	.0	.0	.0	4	.0	.7
4	.0	.0	.0	.5	.7	.5	.0	.0	.0	10	.0	1.8
3	.0	.0	.4	.2	.9	1.1	.0	.0	.0	14	.2	2.3
2	.0	.0	.0	2.3	4.1	1.1	.0	.0	.0	42	.0	7.5
1	.0	.0	.0	2.7	4.8	1.4	.0	.0	.0	50	.0	8.9
0	.0	.0	.5	2.9	7.9	.7	.0	.0	.0	67	.0	12.0
-1	.0	.0	.4	7.3	8.2	.7	.0	.0	.0	93	.4	16.3
-2	.0	.0	.9	5.5	6.4	.2	.0	.0	.0	73	.4	12.7
-3	.0	.0	1.4	3.6	2.5	.2	.0	.0	.0	43	.0	7.7
-4	.0	.0	2.3	4.7	2.9	.2	.0	.0	.0	56	.0	10.0
-5	.0	.2	1.1	3.6	1.3	.4	.0	.0	.0	36	.2	6.3
-6	.0	.0	1.4	2.5	.7	.2	.0	.0	.0	27	.0	4.8
-7/-8	.2	.7	1.4	1.4	.0	.0	.0	.0	.0	21	.2	3.6
-9/-10	.0	.0	.5	.5	.0	.0	.0	.0	.0	6	.0	1.1
-11/-13	.2	.2	.0	.4	.0	.0	.0	.0	.0	4	.0	.5
TOTAL	2	6	58	215	231	43	0	0	2	559	7	592
PCT	.4	1.1	10.4	38.5	41.3	7.7	.4	.0	.4	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.8	2.9	.0	.0	.0	.0	3.7
1-2	.4	1.8	.0	.0	.0	.0	2.1	.0	3.9	.1	.0	.0	.0	4.0
3-4	.0	.8	.7	.3	.0	.0	1.8	.0	.5	.9	.0	.0	.0	1.4
5-6	.0	.0	.4	.0	.0	.0	.4	.0	1.2	.8	.0	.0	.0	2.0
7	.0	.0	.4	.3	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.6	1.5	.6	.0	.0	6.1	.8	8.5	1.8	.0	.0	.0	11.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.2	2.0	.0	.0	.0	.0	3.1	.1	1.6	.1	.0	.0	.0	1.8
1-2	.4	5.2	1.0	.0	.0	.0	6.5	.4	5.3	1.1	.0	.0	.0	6.7
3-4	.0	1.3	6.3	.0	.0	.0	7.5	.4	4.8	9.7	.0	.0	.0	14.8
5-6	.0	.3	3.1	.0	.0	.0	3.4	.0	.5	5.2	.8	.0	.0	6.4
7	.0	.0	.8	.0	.0	.0	.8	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	8.7	11.1	.0	.0	.0	21.4	.9	12.1	16.4	.8	.0	.0	30.2

PERIOD: (OVER-ALL) 1963-1969

AUGUST

AREA 0004 ROCKHAMPTON
23.25 152.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.7	.3	.0	.0	.0	1.7	.0	1.2	.0	.0	.0	.0	1.2
1-2	.4	1.4	1.4	.0	.0	.0	3.1	.0	1.6	.4	.0	.0	.0	2.0
3-4	.0	2.7	4.0	.4	.0	.0	7.1	.0	.2	2.1	.4	.0	.0	2.7
5-6	.0	.3	1.9	.0	.0	.0	2.1	.0	.1	.5	.0	.0	.0	.6
7	.0	.0	.6	.0	.0	.0	.6	.0	.0	1.0	.0	.0	.0	1.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	5.1	8.1	.4	.0	.0	14.6	.0	3.0	4.0	.8	.0	.0	7.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
1-2	.0	1.1	.0	.0	.0	.0	1.1	.0	1.0	.0	.0	.0	.0	1.0	
3-4	.0	.3	1.0	.0	.0	.0	1.3	.0	.4	.4	.1	.0	.0	.9	
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.4	1.3	.0	.0	.0	2.6	.0	1.8	.4	.2	.4	.0	2.7	96.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	6.2	10.1	.4	.0	.0	.0	16.7	
1-2	1.6	21.0	3.9	.0	.0	.0	26.5	
3-4	.4	10.9	24.9	1.2	.0	.0	37.4	
5-6	.0	2.3	12.1	.8	.0	.0	15.2	
7	.0	.0	3.1	.4	.0	.0	3.5	
8-9	.0	.0	.0	.0	.4	.0	.4	
10-11	.0	.0	.0	.4	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.2	44.4	44.4	2.7	.4	.0	100.0	257

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<4	2.6	9.2	16.5	11.9	2.0	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	133	4
4-7	.0	1.3	10.2	10.6	4.0	2.3	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	89	5
8-9	.0	.3	3.3	7.3	2.3	2.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51	6
10-11	.0	.0	.0	2.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	5
12-13	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	3
>13	.0	.0	.0	.3	.7	1.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	8
INDET	2.6	.7	.3	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	2
TOTAL	16	35	93	98	31	20	9	.0	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	303	4
PCT	5.3	11.6	30.7	32.3	10.2	6.6	3.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1919-1971
(OVER-ALL) 1871-1971AREA 0004 ROCKHAMPTON
23.25 152.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.0	2.9	2.2	.0	.0	.0	.0	5.1	.0	.0	.7	.0	8.1	.0	86.1
NE	.0	.0	1.2	.0	.0	.0	.0	1.2	.0	.0	2.3	.0	2.3	.0	94.2
E	3.4	.5	.0	.0	.0	.0	.0	4.0	.0	1.1	.0	.0	1.1	.0	93.9
SE	.8	1.2	1.6	.0	.0	.0	.0	3.7	.8	.8	.0	.0	.0	.0	94.7
S	2.8	4.8	.0	.0	.0	.0	.0	7.6	.0	1.6	.0	.0	3.2	.0	87.6
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	2.5	.0	96.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	1.2	1.4	.8	.0	.0	.0	.0	3.3	.2	.6	.4	.0	2.1	.0	93.4
TOT OBS:	518														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	1.5	.0	.8	.0	.0	.0	.0	2.3	.8	.0	.0	.0	2.3	.0	94.6
06009	.0	.0	1.2	.0	.0	.0	.0	1.2	.0	.6	.6	.0	2.9	.0	94.8
12015	1.0	1.9	.0	.0	.0	.0	.0	2.9	.0	.0	.0	.0	1.0	.0	96.2
18021	2.1	3.4	.7	.0	.0	.0	.0	6.2	.0	2.1	.7	.0	2.1	.0	89.0
TOT PCT	1.1	1.3	.7	.0	.0	.0	.0	3.1	.2	.7	.4	.0	2.2	.0	93.5
TOT OBS:	553														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.9	8.2	3.0	.3	.0	.0		13.4	8.1	10.1	10.0	16.0	19.5	17.6	14.0	13.4	5.8
NE	1.8	6.9	.5	.3	.0	.0		9.6	6.8	3.0	10.0	6.1	12.2	11.6	12.2	12.0	11.5
E	3.2	9.8	5.9	.9	.0	.0		19.8	9.5	11.6	17.2	15.5	23.8	18.5	32.6	21.9	19.2
SE	1.1	8.5	12.6	1.6	.0	.0		23.8	12.7	27.7	25.0	28.1	26.8	24.5	19.2	20.3	17.3
S	.6	4.2	4.8	.3	.0	.0		10.0	11.1	17.0	14.4	11.2	3.0	8.3	4.1	9.7	10.3
SW	.1	2.3	2.1	.1	.0	.0		4.7	10.5	12.8	6.7	3.1	.0	2.3	2.9	2.9	8.3
W	.3	2.1	1.2	.0	.0	.0		3.5	8.9	5.1	2.8	4.1	1.8	3.2	2.9	3.3	4.5
NW	1.1	6.9	3.9	.1	.0	.0		12.0	8.9	11.6	12.8	11.9	11.6	2.8	12.2	12.4	17.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.2	.0	1.2	1.1	4.1	1.2	11.1	.0	3.9	5.1
TOT OBS	100	367	255	28	0	0	750		9.6	84	90	147	82	54	86	129	78
TOT PCT	13.3	48.9	34.0	3.7	.0	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	6.1	6.6	.4	.2	.0		13.4	8.1	10.1	17.2	15.4	10.5
NE	5.6	3.6	.3	.1	.0		9.6	6.8	6.6	8.3	12.0	11.8
E	7.8	8.4	3.7	.0	.0		19.8	9.5	14.5	18.4	27.1	20.9
SE	3.5	13.3	6.6	.4	.0		23.8	12.7	26.2	27.6	21.3	19.3
S	2.2	6.2	1.5	.0	.0		10.0	11.1	15.7	8.3	5.7	9.9
SW	1.0	3.4	.3	.0	.0		4.7	10.5	9.6	2.0	2.7	5.0
W	1.2	2.1	.2	.0	.0		3.5	8.9	2.9	3.3	3.0	3.7
NW	5.1	6.1	.8	.0	.0		12.0	8.9	12.2	11.8	8.6	14.5
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	3.2						3.2	.0	1.1	3.1	4.3	4.3
TOT OBS	268	372	105	5	0	750		9.6	174	229	140	207
TOT PCT	35.7	49.6	14.0	.7	.0		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1919-1971
(OVER-ALL) 1871-1971AREA 0004 ROCKHAMPTON
23.25 152.3E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	1.1	7.5	48.3	39.1	4.0	.0	.0	.0	10.5	100.0	174
06009	3.1	11.4	45.9	36.2	3.5	.0	.0	.0	9.8	100.0	229
12015	4.3	10.0	54.3	27.1	4.3	.0	.0	.0	9.0	100.0	140
18021	4.3	11.1	49.3	31.9	3.4	.0	.0	.0	9.1	100.0	207
TOT	24	76	367	255	28	0	0	0	9.6		750
PCT	3.2	10.1	48.9	34.0	3.7	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.2	2.4	3.4	.4		2.7
NE	6.8	.5	.5	.0		1.6
E	10.5	2.2	2.3	.4		2.0
SE	10.5	8.3	6.3	.8		3.1
S	9.2	3.4	1.5	.4		2.2
SW	3.9	1.0	.9	.0		2.0
W	2.7	.6	.7	.0		1.6
NW	5.1	1.9	.6	.0		2.2
VAR	.0	.0	.0	.0		.0
CALM	4.6	.0	.4	.4		1.3
TOT OBS	145	49	4		240	2.3
TOT PCT	60.4	20.4	16.7	2.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.4	1.6	1.6	.0	.0	.0	.0	9.9	
NE	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	7.4	
E	.0	.0	.0	.7	.4	.0	.4	.0	.0	.0	13.9	
SE	.0	.0	.0	3.0	.6	1.3	.0	.0	.0	.0	21.0	
S	.0	.0	.0	.0	1.5	.0	.0	.0	.0	.0	13.0	
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	
NW	.0	.0	.0	.0	.5	.1	.0	.0	.0	.0	7.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	5.0	
TOT OBS	0	0	0	10	12	8	1	0	0	0	209	240
TOT PCT	.0	.0	.0	4.2	5.0	3.3	.4	.0	.0	.0	87.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>8500	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.0	.0	.0	.0	.0	.0	.0	.0
>3500	.4	.4	.4	.4	.4	.4	.4	.4
>2000	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
>1000	8.0	8.4	8.4	8.4	8.4	8.4	8.4	8.4
>600	11.2	12.0	12.4	12.4	12.4	12.4	12.4	12.4
>300	11.2	12.0	12.4	12.4	12.4	12.4	12.4	12.4
>150	11.2	12.0	12.4	12.4	12.4	12.4	12.4	12.4
>0	11.2	12.0	12.4	12.4	12.4	12.4	12.4	12.4
TOTAL	28	30	31	31	31	31	31	31

TOTAL NUMBER OF OBS: 250

PCT FREQ NH <5/8: 87.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
23.6	28.1	16.5	13.1	5.6	4.1	3.0	4.1	1.9	.0	267

SEPTEMBER

AREA 0004 ROCKHAMPTON
23.25 152.3EPERIOD: (PRIMARY) 1919-1971
(OVER-ALL) 1871-1971

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.2
	TOT %	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.2
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.8	.2	.2	.0	.2	.0	.0	.0	.0	.0	1.4	1.4
	TOT %	.8	.2	.2	.0	.2	.0	.0	.0	.0	.0	1.4	1.4
2<5	PCP	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.4
5<10	PCP	.5	.1	.2	.6	.5	.0	.0	.0	.0	.0	1.9	1.9
	NO PCP	4.2	4.0	8.2	8.8	3.3	1.9	1.7	6.7	.0	.4	39.2	39.2
	TOT %	4.7	4.1	8.4	9.4	3.8	1.9	1.7	6.7	.0	.4	41.1	41.1
10+	PCP	.0	.0	.3	.2	.4	.0	.0	.0	.0	.0	1.0	1.0
	NO PCP	7.4	3.8	9.2	13.9	7.6	3.9	2.4	5.0	.0	2.7	55.8	55.8
	TOT %	7.4	3.8	9.5	14.1	8.0	3.9	2.4	5.0	.0	2.7	56.8	56.8
TOT OBS													518
TOT PCT		13.2	8.3	18.3	23.5	12.0	5.8	4.1	11.7	.0	3.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
1<2	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	4-10	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.2	.2
	11-21	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5
	22+	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.4	.4
	TOT %	.7	.2	.2	.0	.2	.0	.0	.0	.0	.0	1.2	1.2
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.2
	TOT %	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.4	.4
5<10	0-3	.5	1.5	1.0	.2	.0	.0	.2	.5	.0	.4	4.2	4.2
	4-10	2.9	2.1	2.5	2.2	1.6	.8	.7	4.0	.0	.0	16.8	16.8
	11-21	.9	.1	3.9	5.0	1.7	1.0	.7	1.6	.0	.0	14.8	14.8
	22+	.1	.1	.4	1.3	.2	.0	.0	.0	.0	.0	2.1	2.1
	TOT %	4.4	3.8	7.8	8.7	3.5	1.8	1.6	6.1	.0	.4	37.9	37.9
10+	0-3	.7	.2	1.6	.9	.7	.1	.1	.4	.0	2.8	7.6	7.6
	4-10	4.6	3.4	5.0	5.0	2.8	1.9	1.7	3.1	.0	.0	27.5	27.5
	11-21	2.5	.6	2.7	8.2	3.7	1.5	.8	3.4	.0	.0	23.5	23.5
	22+	.2	.4	.4	.6	.0	.0	.0	.0	.0	.0	1.6	1.6
	TOT %	8.0	4.5	9.7	14.6	7.3	3.6	2.6	6.9	.0	2.8	60.1	60.1
TOT OBS													567
TOT PCT		13.4	8.7	17.9	23.3	11.0	5.3	4.2	13.1	.0	3.2	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1919-1971
(OVER-ALL) 1871-1971

AREA 0004 ROCKHAMPTON
23.25 152.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	4.9	8.6	1.2	1.2	.0	.0	.0	16.0	84.0	81
06009	.0	.0	.0	2.8	2.8	4.2	.0	.0	.0	.0	9.7	90.3	72
12015	.0	.0	.0	5.6	1.9	5.6	.0	.0	.0	.0	13.0	87.0	54
18021	.0	.0	.0	1.8	3.6	1.8	.0	.0	.0	.0	7.1	92.9	56
TOT	0	0	0	10	12	8	1	0	0	0	31	232	263
PCT	.0	.0	.0	3.8	4.6	3.0	.4	.0	.0	.0	11.8	88.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	1.5	.0	29.2	69.3	137
06009	.0	.5	1.6	.0	43.2	54.7	190
12015	.0	.0	.0	.0	36.5	63.5	115
18021	.6	.0	1.9	1.3	45.0	51.3	160
TOT	1	1	8	2	236	354	602
PCT	.2	.2	1.3	.3	39.2	58.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	5.2	11.7	83.1	77
06009	.0	.0	2.9	7.4	89.7	68
12015	.0	.0	5.8	7.7	86.5	52
18021	.0	.0	1.9	5.7	92.5	53
TOT	0	0	10	21	219	250
PCT	.0	.0	4.0	8.4	87.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.2	.7	.0	.0	4	1.0
75/79	.0	.0	.2	1.2	3.1	3.1	.5	.2	35	8.3
70/74	.0	.0	1.9	6.2	12.9	17.1	10.2	6.4	230	54.8
65/69	.0	.0	2.1	5.5	6.7	8.3	7.4	4.3	144	34.3
60/64	.0	.0	.0	.7	.2	.0	.5	.2	7	1.7
TOTAL	0	0	18	57	97	123	78	47	420	100.0
PCT	.0	.0	4.3	13.6	23.1	29.3	18.6	11.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.2	.1	.0	.0	.2	.0	.0	.2	.0	.2
75/79	1.7	.3	1.6	1.4	.7	.2	.5	1.4	.0	.5
70/74	8.8	3.9	11.7	12.8	5.3	2.5	1.6	6.5	.0	1.7
65/69	2.9	2.7	6.3	8.6	6.5	1.9	1.6	2.9	.0	1.0
60/64	.0	.0	.0	.0	.2	1.1	.4	.0	.0	.0
TOTAL	13.6	7.0	19.6	22.8	13.0	5.7	4.0	11.0	.0	3.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	85	81	77	71	66	64	61	71.6	174
06009	81	80	76	71	66	63	62	70.9	241
12015	76	74	73	70	66	65	65	69.5	146
18021	79	76	74	70	65	60	60	69.6	217
TOT	85	79	75	70	65	62	60	70.4	778

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	24.3	31.8	31.8	6.5	5.6	67	107		
06009	.0	18.8	25.6	29.3	18.0	8.3	71	133		
12015	.0	11.6	15.1	33.7	24.4	15.1	75	86		
18021	.0	13.7	19.7	23.9	25.6	17.1	76	117		
TOT	0	77	104	130	82	50	72	443		

SEPTEMBER

PERIOD: (PRIMARY) 1919-1971
(OVER-ALL) 1871-1971

TABLE 17

AREA 0004 ROCKHAMPTON
23.25 152.3EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WQ FOG
11/13	.0	.0	.0	.0	.2	.0	.0	.2	2	.0	.4
9/10	.0	.0	.0	.0	.2	.2	.2	.0	3	.0	.7
7/8	.0	.0	.0	.0	.2	.2	.0	.0	2	.0	.4
6	.0	.0	.0	.0	.2	.2	.2	.0	3	.0	.7
5	.0	.0	.0	.2	1.1	.4	.0	.0	8	.0	1.8
4	.0	.0	.2	1.3	.7	.7	.0	.0	13	.0	2.9
3	.0	.0	.2	4.7	2.5	.4	.0	.0	35	.0	7.8
2	.0	.0	.9	5.8	2.5	.0	.0	.0	41	.0	9.2
1	.0	.0	2.9	9.2	2.5	.2	.0	.0	66	.0	14.8
0	.0	.0	2.7	8.7	2.0	.0	.0	.0	60	.0	13.4
-1	.0	.0	3.8	10.5	2.9	.0	.0	.0	77	.0	17.2
-2	.0	.0	.9	5.1	.9	.0	.0	.0	31	.0	6.9
-3	.0	.0	2.0	4.9	.9	.0	.0	.0	35	.0	7.8
-4	.0	.2	2.5	2.9	.0	.0	.0	.0	25	.0	5.6
-5	.0	.2	2.2	2.7	.0	.0	.0	.0	23	.0	5.1
-6	.2	.2	1.1	.9	.0	.0	.0	.0	11	.0	2.5
-7/-8	.2	.9	.4	.4	.0	.0	.0	.0	9	.0	2.0
-9/-10	.0	.2	.2	.0	.0	.0	.0	.0	2	.0	.4
-11/-13	.0	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	2		90		73		2		447	0	447
PCT	.4	2.0	20.1	57.5	16.8	2.5	.4	.2	100.0		100.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.5	2.5	.0	.0	.0	.0	2.9	.5	.0	.0	.0	.0	.0	.5
1-2	.0	6.1	1.8	.0	.0	.0	8.0	.0	3.4	.5	.0	.0	.0	3.9
3-4	.0	1.3	.7	.0	.0	.0	2.1	.0	.6	.1	.0	.0	.0	.7
5-6	.0	.4	1.7	.0	.0	.0	2.1	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	10.3	4.3	.0	.0	.0	15.1	.5	4.2	.6	.0	.0	.0	5.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	.0	.0	.0	.0	.0	.4	.6	.5	.0	.0	.0	.0	1.1
1-2	.0	4.5	.5	.0	.0	.0	5.0	.1	1.7	2.0	.0	.0	.0	3.8
3-4	.0	2.1	2.7	.4	.0	.0	5.1	.0	3.3	8.7	.1	.0	.0	12.1
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.5	3.6	.0	.0	.0	4.0
7	.0	.0	.5	.9	.0	.0	1.3	.0	.0	2.5	.6	.0	.0	3.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	6.6	5.0	1.2	.0	.0	13.2	.7	6.0	16.7	1.2	.0	.0	24.6

PERIOD: (OVER-ALL) 1963-1971

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AREA 0004 ROCKHAMPTON
23.25 152.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

								SW								
MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.5	1.5	.0	.0	.0	.0	2.0	.5	.5	.0	.0	.0	.0	.5		
1-2	.9	3.3	.9	.0	.0	.0	5.0	.0	1.1	.1	.0	.0	.0	1.2		
3-4	.5	.9	5.4	.0	.0	.0	6.7	.0	.5	2.5	.0	.0	.0	2.9		
5-6	.0	.0	2.5	.0	.0	.0	2.5	.0	.5	1.5	.0	.0	.0	2.0		
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1		
8-9	.0	.0	.9	.0	.0	.0	.9	.0	.0	.1	.0	.0	.0	.1		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	1.8	5.6	9.6	.0	.0	.0	17.0	.0	2.6	4.3	.0	.0	.0	6.9		

								NW								TOTAL
MGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT	
<1	.0	.4	.0	.0	.0	.0	.4	.5	.1	.0	.0	.0	.0	.6		
1-2	.0	3.4	.0	.0	.0	.0	3.4	.0	3.3	.6	.0	.0	.0	3.9		
3-4	.0	.0	.7	.0	.0	.0	.7	.0	2.1	1.2	.0	.0	.0	3.3		
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7		
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	3.8	1.1	.0	.0	.0	4.9	.5	5.5	3.1	.0	.0	.0	9.1	96.1	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

MGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	8.1	5.2	.0	.0	.0	.0	13.3	
1-2	2.4	26.2	6.2	.0	.0	.0	34.8	
3-4	.5	10.5	21.4	.5	.0	.0	32.9	
5-6	.0	1.4	11.0	.0	.0	.0	12.4	
7	.0	.0	3.3	1.4	.0	.0	4.8	
8-9	.0	.0	1.4	.0	.0	.0	1.4	
10-11	.0	.0	.0	.5	.0	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	11.0	43.3	43.3	2.4	.0	.0	100.0	210

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN MGT
<6	2.2	12.1	18.1	12.5	4.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	115	4
6-7	.0	3.0	7.8	8.2	6.5	3.0	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	69	5
8-9	.0	.0	.9	3.4	2.6	.9	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	7
10-11	.0	.0	.0	1.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	3
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	5
INDEX	3.0	.4	.4	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	2
TOTAL	12	38	66	65	32	12	4	2	1	0	0	0	0	0	0	0	0	0	0	232	4
PCT	5.2	16.4	28.4	28.0	13.8	5.2	1.7	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1922-1971
(OVER-ALL) 1877-1971

OCTOBER

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WNO DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	1.1	4.4	.0	.0	.0	.0	.0	5.5	.0	1.1	1.7	.0	3.3	.0	88.4
NE	.0	3.8	.9	.0	.0	.0	.0	4.7	.0	.0	.0	.0	.9	.0	94.4
E	1.4	4.5	.0	.0	.0	.0	.0	5.9	1.3	.3	.0	.0	1.7	.0	91.1
SE	2.9	5.5	.6	.0	.0	.0	.0	8.9	3.6	.0	.3	.0	1.7	.0	85.5
S	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	2.2	.0	2.2	.0	92.1
SW	15.4	7.7	.0	.0	.0	.0	.0	23.1	.0	9.6	.0	.0	11.5	.0	65.5
W	12.5	.0	.0	.0	.0	.0	.0	12.5	.0	12.5	.0	.0	6.3	.0	81.3
NW	.0	2.2	.0	.0	.0	.0	.0	2.2	.0	.0	1.1	.0	.0	.0	96.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.4	.0	84.6
TOT PCT	1.8	4.3	.3	.0	.0	.0	.0	6.3	1.3	.7	.4	.0	2.2	.0	89.4
TOT OBS:	682														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	1.3	3.2	.6	.0	.0	.0	.0	3.1	1.9	.0	.0	.0	4.5	.0	88.5
06009	.9	4.4	.4	.0	.0	.0	.0	3.8	.9	.0	1.3	.0	3.1	.0	88.9
12015	1.4	2.7	.0	.0	.0	.0	.0	4.1	.0	1.4	.0	.0	.7	.0	94.6
18021	3.2	7.0	.0	.0	.0	.0	.0	10.3	2.2	1.8	.0	.0	.5	.0	86.5
TOT PCT TOT OBS:	1.7 715	4.5	.3	.0	.0	.0	.0	6.4	1.3	.7	.4	.0	2.2	.0	89.4

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.9	8.7	2.8	.0	.0	.0		13.4	7.6		7.2	13.5	14.2	17.8	8.2	18.5	10.6	17.4
NE	1.3	10.9	2.9	.1	.0	.0		15.3	7.8		9.9	17.2	12.1	16.3	15.3	25.0	14.7	15.8
E	1.9	14.5	11.4	.9	.0	.0		28.8	10.5		36.1	20.8	28.5	32.7	35.6	29.3	30.3	20.3
SE	.6	9.3	19.9	1.3	.1	.0		25.2	12.4		26.0	25.0	28.5	22.3	31.8	21.2	22.3	23.4
S	.5	1.3	1.9	.3	.0	.0		3.9	11.3		5.2	4.2	3.6	1.5	2.1	1.1	6.6	5.8
SW	.1	.9	1.1	.1	.0	.0		2.2	11.4		4.5	3.1	2.2	.5	1.2	.5	2.3	3.2
W	.4	.5	.5	.0	.0	.0		1.4	8.2		1.5	2.6	1.7	.0	.9	.5	1.4	2.1
NW	1.1	4.0	2.5	.0	.0	.0		7.5	8.5		7.7	11.5	8.6	7.9	2.6	1.6	8.2	10.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0		2.0	2.1	2.6	1.0	2.4	2.2	3.5	2.1
TOT OBS	92	453	334	25	1	0	905		9.8		101	96	194	101	85	92	141	95
TOT PCT	10.2	50.1	36.9	2.8	.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	6.4	6.5	.5	.0	.0		13.4	7.6	10.3	15.4	13.6	13.3	
NE	6.7	8.3	.2	.0	.0		15.3	7.8	13.5	13.6	20.3	15.1	
E	6.4	18.0	4.3	.0	.0		28.8	10.5	28.7	28.6	32.3	26.3	
SE	3.5	15.4	6.1	.3	.0		25.2	12.4	25.5	26.4	26.3	22.8	
S	1.0	2.0	.8	.1	.0		3.9	11.3	4.7	2.9	1.6	6.3	
SW	.4	1.6	.1	.1	.0		2.2	11.4	3.8	1.6	.8	2.6	
W	.6	.7	.1	.0	.0		1.4	8.2	2.0	1.1	.7	1.7	
NW	3.0	4.3	.3	.0	.0		7.5	8.5	9.5	8.4	2.1	8.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.3						2.3	.0	2.0	2.0	2.3	3.0	
TOT OBS	274	515	112	4	0	905		9.8	197	295	177	236	
TOT PCT	30.3	56.9	12.4	.4	.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1922-1971
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	2.0	10.2	46.7	39.1	1.5	.5	.0	9.9	100.0	197	
06009	2.0	10.2	46.4	37.3	4.1	.0	.0	9.9	100.0	295	
12015	2.3	6.8	52.0	35.6	3.4	.0	.0	9.7	100.0	177	
18021	3.0	3.8	55.9	35.6	1.7	.0	.0	9.7	100.0	236	
TOT	21	71	453	334	25	1	0	9.8		905	
PCT	2.3	7.8	50.1	36.9	2.8	.1	.0	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL OBS	MEAN CLOUD COVER
				OBSCD		
N	5.0	1.1	.8	1.2		2.6
NE	6.0	2.9	1.9	.4		2.8
E	19.3	9.6	7.5	1.0		3.1
SE	11.3	9.4	7.1	1.9		3.5
S	2.5	1.4	.6	.3		2.5
SW	.9	.6	.3	.3		3.5
W	.5	.0	.6	.0		3.9
NW	4.3	1.4	1.0	.0		1.8
VAR	.0	.0	.0	.0		.0
CALM	2.2	.0	.0	.6		2.6
TOT OBS	150	83	62	18	313	3.0
TOT PCT	47.9	26.5	19.8	5.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH < 5/8	TOTAL
	149	299	599	999	1999	3499	6499	7999			ANY HGT	OBS
N	.0	.0	.0	.0	.6	.5	.3	.0	.0	.0	6.8	
NE	.0	.0	.0	.3	.8	.2	.3	.0	.0	.0	9.6	
E	.0	.0	.0	.0	2.0	1.0	.3	.0	.0	.0	30.0	
SE	.0	.0	.3	.6	3.4	.9	.0	.1	.0	.0	24.4	
S	.0	.0	.0	.0	.3	.0	.0	.2	.0	.0	4.2	
SW	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	1.5	
W	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.7	
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	2.2	
TOT OBS	0	0	1	3	24	9	6	1	0	1	268	313
TOT PCT	.0	.0	.3	1.0	7.7	2.9	1.9	.3	.0	.3	85.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>90YD	>0
>6500	.3	.3	.3	.3	.3	.3	.3	.3
>5000	.6	.6	.6	.6	.6	.6	.6	.6
>3500	2.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5
>2000	5.6	5.9	5.9	5.9	5.9	5.9	5.9	5.9
>1000	11.6	13.8	13.8	13.8	13.8	13.8	13.8	13.8
>600	12.2	14.4	14.7	14.7	14.7	14.7	14.7	14.7
>300	12.5	14.7	15.0	15.0	15.0	15.0	15.0	15.0
>150	12.5	14.7	15.0	15.0	15.0	15.0	15.0	15.0
>0	12.5	14.7	15.0	15.0	15.0	15.0	15.0	15.0
TOTAL	40	47	48	48	48	48	48	48

TOTAL NUMBER OF OBS: 320

PCT FREQ NH < 5/8: 85.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	12.7	29.1	21.0	17.8	8.3	5.0	4.7	2.7	2.7	.0	338

PERIOD: (PRIMARY) 1922-1971
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.2	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.4
	TOT %	.2	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.4
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.4	.0	.0	.1	.1	.1	.1	.0	.0	.1	.0	.9
	TOT %	.4	.0	.0	.1	.1	.1	.1	.0	.0	.1	.0	.9
2<5	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
5<10	PCP	.7	.4	1.8	2.3	.0	.4	.1	.1	.0	.0	.0	6.0
	NO PCP	7.5	8.6	12.6	9.3	.4	.1	.4	3.2	.0	.1	.1	42.1
	TOT %	8.2	9.1	14.4	11.5	.4	.5	.5	3.4	.0	.1	.1	48.2
10+	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	NO PCP	4.4	6.1	16.4	13.8	2.6	1.3	.6	3.1	.0	1.6	1.6	50.1
	TOT %	4.4	6.2	16.4	13.8	2.6	1.3	.6	3.1	.0	1.6	1.6	50.2
TOT OBS													681
TOT PCT		13.3	15.6	30.9	25.5	3.1	1.9	1.2	6.6	.0	1.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2
	TOT %	.2	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.4
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.3	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.4
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	22+	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	.1	.8
	TOT %	.4	.0	.0	.1	.1	.1	.1	.0	.0	.0	.1	.8
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
5<10	0-3	1.0	.7	.9	.4	.0	.0	.0	.4	.0	.0	.1	3.5
	4-10	4.8	6.2	6.0	4.4	.1	.1	.2	1.6	.0	.0	.0	23.3
	11-21	1.8	1.3	3.4	3.1	.2	.3	.3	1.3	.0	.0	.0	15.9
	22+	.0	.1	.8	.6	.1	.0	.0	.0	.0	.0	.0	1.6
	TOT %	7.6	8.4	13.1	10.5	.3	.5	.5	3.5	.0	.1	.1	44.5
10+	0-3	.8	.5	1.2	.4	.4	.4	.3	.6	.0	1.7	.0	6.0
	4-10	4.0	4.1	8.4	4.6	1.0	.7	.2	2.8	.0	.0	.0	25.8
	11-21	1.0	1.9	6.6	8.9	1.0	.4	.1	1.1	.0	.0	.0	21.0
	22+	.0	.0	.1	.8	.1	.1	.0	.0	.0	.0	.0	1.2
	TOT %	5.8	6.5	16.3	14.7	2.6	1.2	.7	4.6	.0	1.7	53.9	
TOT OBS													749
TOT PCT		14.0	15.1	29.4	25.3	3.0	1.8	1.3	8.1	.0	2.0	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	2.0	8.1	5.1	2.0	1.0	.0	1.0	19.2	80.8	99
06009	.0	.0	.0	1.0	7.2	5.2	2.1	.0	.0	.0	15.5	84.5	97
12015	.0	.0	1.3	.0	5.2	.0	1.3	.0	.0	.0	7.8	92.2	77
18021	.0	.0	.0	.0	9.7	1.6	1.6	.0	.0	.0	12.9	87.1	62
TOT	0	0	1	3	25	11	6	1	0	1	48	287	335
PCT	.0	.0	.3	.9	7.5	3.3	1.8	.3	.0	.3	14.3	85.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	1.8	.6	32.7	64.9	168
06009	.0	1.2	1.2	.4	46.6	50.6	253
12015	.6	.0	.6	.0	40.3	58.5	159
18021	.0	.0	.0	.0	56.9	43.1	202
TOT	1	3	7	2	352	417	782
PCT	.1	.4	.9	.3	45.0	53.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	2.0	17.3	80.6	98
06009	.0	.0	2.2	15.6	82.2	90
12015	.0	1.4	1.4	6.8	91.8	73
18021	.0	.0	.0	13.6	86.4	59
TOT	0	1	9	44	271	320
PCT	.0	.3	1.6	13.8	84.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.4	.2	.2	.0	.0	4	.7
75/79	.0	.2	.2	1.7	6.7	10.2	4.3	3.3	143	26.4
70/74	.0	.4	.4	2.0	14.2	24.2	15.9	7.9	352	65.1
65/69	.0	.0	.2	.9	.6	1.5	2.2	2.0	40	7.4
60/64	.0	.0	.0	.2	.0	.0	.0	.2	2	.4
TOTAL	0	3	4	28	117	195	121	73	541	100.0
PCT	.0	.6	.7	5.2	21.6	36.0	22.4	13.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.3	.2	.0	.0	.0	.2	.0	.0	.0
4.4	4.7	7.6	4.0	.4	.4	.6	3.7	.0	.7	.7
9.8	11.2	20.7	16.4	2.1	1.0	.4	2.7	.0	.7	.7
.6	.3	3.0	2.1	.4	.4	.2	.0	.0	.4	.4
.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0
14.8	16.2	31.8	22.8	2.9	2.0	1.1	6.6	.0	1.8	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	82	81	79	74	70	67	63	74.3	200
06009	84	80	78	74	69	66	64	73.7	295
12015	77	76	75	72	69	68	66	72.2	182
18021	80	78	76	72	68	65	63	71.9	248
TOT	84	80	78	73	69	66	63	73.1	925

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	7.3	29.0	37.1	16.1	10.5	74	124		
06009	.0	7.4	25.7	33.7	20.0	13.1	75	175		
12015	.0	4.0	16.8	41.6	25.6	12.0	77	125		
18021	.0	6.3	13.3	34.3	27.3	18.9	78	143		
TOT	0	36	121	206	126	78	76	567		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.4	.4	.0	4	.0	.7
6	.0	.0	.0	.2	.7	.2	6	.0	1.1
5	.0	.0	.0	.5	1.2	.0	10	.0	1.8
4	.0	.0	.4	2.1	1.2	.0	21	.0	3.7
3	.0	.0	.7	3.9	1.1	.0	32	.0	5.7
2	.0	.0	2.5	8.0	2.3	.0	72	.0	12.8
1	.0	.0	3.0	10.1	.5	.0	79	.2	13.9
0	.0	.4	5.5	9.2	.5	.0	88	.2	15.5
-1	.0	.0	8.2	7.6	.0	.0	89	.0	15.8
-2	.0	.4	6.9	2.5	.0	.0	55	.0	9.8
-3	.0	.7	4.4	1.8	.0	.0	39	.0	6.9
-4	.0	.7	3.4	2.1	.0	.0	35	.0	6.2
-5	.0	.7	1.1	.4	.0	.0	12	.0	2.1
-6	.0	1.1	1.1	.0	.0	.0	12	.0	2.1
-7/-8	.2	.2	.4	.0	.2	.0	5	.0	.9
-9/-10	.2	.0	.2	.0	.0	.0	2	.0	.4
-11/-13	.0	.0	.2	.0	.0	.0	1	.0	.2
TOTAL	2	23	213	275	48	2	563	2	561
PCT	.4	4.1	37.8	48.8	8.5	.4	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.3	.0	.0	.0	.0	1.8	.5	1.1	.0	.0	.0	.0	1.6
1-2	.5	1.3	.4	.0	.0	.0	2.2	.0	4.5	2.4	.0	.0	.0	6.9
3-4	.0	.5	.5	.0	.0	.0	1.0	.0	2.5	1.0	.0	.0	.0	3.5
5-6	.0	.0	.5	.0	.0	.0	.5	.0	.0	.6	.0	.0	.0	.6
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	3.1	1.3	.0	.0	.0	5.4	.5	8.1	4.0	.0	.0	.0	12.6

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8	.0	.6	.0	.0	.0	.0	.6
1-2	.5	9.3	3.6	.0	.0	.0	13.4	.0	3.5	2.2	.0	.0	.0	5.7
3-4	.0	6.5	3.4	.0	.0	.0	9.9	.0	4.5	4.5	1.0	.0	.0	9.9
5-6	.0	1.4	5.0	.0	.0	.0	6.4	.0	.1	8.6	.0	.0	.0	8.7
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
17-19	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	18.5	13.6	.0	.0	.0	32.6	.3	8.8	16.3	1.4	.5	.0	27.1

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.0	.5	.0	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.2	.4	.0	.0	.0	1.6	.0	.5	.6	.0	.0	.0	.0	1.1
3-4	.0	1.0	1.7	.0	.0	.0	2.7	.0	1.0	.6	.0	.0	.0	.0	1.6
5-6	.0	.4	.5	.0	.0	.0	.8	.0	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	3.0	2.5	.5	.0	.0	7.0	.0	1.4	1.2	.5	.0	.0	.0	3.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5
1-2	.4	.5	.0	.0	.0	.0	.8	.6	1.9	.6	.0	.0	.0	.0	3.1
3-4	.0	.0	.0	.0	.0	.0	.0	.0	1.4	1.4	.0	.0	.0	.0	2.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.6	3.9	2.5	.0	.0	.0	.0	7.0
TOT PCT	.4	.5	.0	.0	.0	.0	.8	.6	3.9	2.5	.0	.0	.0	.0	95.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	6.7	4.8	.0	.0	.0	.0	11.4	
1-2	2.9	22.4	10.0	.0	.0	.0	35.2	
3-4	.0	17.1	12.9	1.0	.0	.0	31.0	
5-6	.0	1.9	14.8	.5	.0	.0	17.1	
7	.0	.0	2.4	.0	.0	.0	2.4	
8-9	.0	.0	.0	1.0	.0	.0	1.0	
10-11	.0	.0	1.0	.0	.0	.0	1.0	
12	.0	.0	.0	.0	.5	.0	.5	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.5	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	9.5	46.7	41.0	2.4	.5	.0	100.0	210

PERIOD: (OVER-ALL) 1950-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	15.8	16.3	7.5	1.3	.4	1.7	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	108	3
6-7	.0	3.3	10.8	14.6	4.2	1.7	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85	5
8-9	.0	.8	2.1	1.7	2.9	1.3	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	6
10-11	.0	.0	.0	.4	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	7
12-13	.0	.0	.8	.8	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
>13	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	2
INDEX	2.1	1.3	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	240	4
TOTAL	9	51	74	62	23	9	8	1	2	1	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
PCT	3.8	21.3	30.8	25.8	9.6	3.8	3.3	.4	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0		

NOVEMBER

PERIOD: (PRIMARY) 1922-1971
(OVER-ALL) 1884-1971

AREA 0004 ROCKHAMPTON
23.25 152.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
N	.0	.8	.0	.0	.0	.0	.0	.8	.0	4.2	.0	.0	3.2	.0	91.8
NE	3.3	2.2	.0	.0	.0	.0	.0	5.5	1.1	1.1	.0	.0	.6	.0	91.7
E	.6	4.5	.3	.0	.0	.0	.0	5.4	1.1	1.1	.0	.0	3.6	.0	89.4
SE	.7	3.5	.4	.0	.0	.0	.0	4.6	1.7	.2	.0	.0	.7	.0	92.1
S	.0	.0	.0	.0	.0	.0	.0	.0	4.1	4.1	.0	.0	16.2	.0	75.7
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22.2	.0	77.8
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.9	.0	.0	.0	.0	87.1
NW	2.8	1.8	.0	.0	.0	.0	.0	4.6	1.4	1.4	.0	.0	11.4	.0	81.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	85.7
TOT PCT	1.1	2.8	.2	.0	.0	.0	.0	4.1	1.3	1.6	.0	.0	3.8	.2	89.2
TOT OBS:	611														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WFA
00003	1.4	2.8	.0	.0	.0	.0	.0	4.1	2.1	.0	.0	.0	6.9	.7	86.2
06009	.5	3.1	.5	.0	.0	.0	.0	4.1	.5	1.0	.0	.0	4.1	.0	90.8
12015	1.5	1.5	.0	.0	.0	.0	.0	3.1	.8	4.6	.0	.0	3.8	.0	87.7
18021	1.2	3.1	.0	.0	.0	.0	.0	4.3	1.9	1.2	.0	.0	1.2	.0	91.4
TOT PCT	1.1	2.7	.2	.0	.0	.0	.0	3.9	1.3	1.6	.0	.0	3.9	.2	89.3
TOT OBS:	633														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.3	10.0	4.2	.3	.0	.0		15.7	8.9	23.6	18.2	15.4	10.6	21.2	10.4	15.2	11.3	
NE	2.9	11.4	2.1	.0	.0	.0		16.4	7.0	8.8	17.0	14.6	22.8	11.3	25.0	18.6	12.7	
E	1.2	13.1	11.6	1.4	.0	.0		29.2	11.2	23.3	26.1	23.3	35.0	32.9	34.8	31.4	32.0	
SE	.8	7.0	11.3	2.0	.0	.0		21.1	13.5	17.0	17.6	27.2	24.4	24.0	20.7	16.1	20.0	
S	.1	2.2	1.0	.3	.0	.0		3.6	10.4	3.1	9.1	9.7	.0	1.0	.6	4.3	6.0	
SW	.3	.3	.2	.0	.0	.0		.7	8.9	.0	1.1	.0	.0	.0	.0	1.4	3.3	
W	.1	.6	.3	.0	.0	.0		1.0	7.8	1.7	.0	1.7	.0	.0	.0	2.1	8.7	
NW	.9	5.7	4.0	.1	.0	.0		10.7	10.3	22.4	8.5	12.3	7.2	9.6	7.3	8.7	.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.6							1.6	.0	.0	2.3	1.9	.0	.0	1.2	2.1	5.3	
TOT OBS	73	416	277	32	0	0	798	100.0	10.3	88	88	161	90	73	82	141	75	
TOT PCT	9.1	52.1	34.7	4.0	.0	.0				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	5.5	9.4	.8	.0	.0			15.7	8.9	20.9	13.6	15.5	13.9
NE	8.4	7.6	.4	.0	.0			16.4	7.0	12.9	17.5	18.5	16.6
E	5.2	18.8	4.8	.4	.0			29.2	11.2	24.7	27.5	33.9	31.6
SE	2.7	10.6	7.5	.3	.0			21.1	13.5	17.3	26.2	22.3	17.5
S	1.2	1.8	.5	.1	.0			3.6	10.4	6.1	2.4	.8	4.9
SW	.3	.3	.2	.0	.0			.7	8.9	.6	.0	.0	2.1
W	.4	.4	.1	.0	.0			1.0	7.8	.9	1.1	.0	1.6
NW	2.8	6.1	1.8	.0	.0			10.7	10.3	15.5	10.5	8.4	8.7
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0	1.1	1.2	.6	3.2
TOT OBS	224	439	128	7	0	798		10.3		176	251	155	216
TOT PCT	28.1	55.0	16.0	.9	.0			100.0		100.0	100.0	100.0	100.0

NOVEMBER

PERIOD: (PRIMARY) 1927-1971
(OVER-ALL) 1884-1971

AREA 0004 ROCKHAMPTON
23.25 152.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
00003	1.1	5.1	52.3	37.5	4.0	.0	.0	.0	10.2	100.0	176
06009	1.2	9.2	49.0	36.3	4.4	.0	.0	.0	10.6	100.0	231
12015	.6	6.5	49.7	37.4	5.8	.0	.0	.0	11.0	100.0	199
18021	3.2	8.3	57.4	28.7	7.3	.0	.0	.0	9.4	100.0	216
TOT	13	40	416	277	32	0	0	0	10.3		798
PCT	1.6	7.5	52.1	34.7	4.0	.0	.0	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	10.1	4.1	5.4	.7		3.2
NE	8.2	2.2	1.0	1.6		2.6
E	11.9	8.7	3.5	1.6		3.1
SE	7.4	4.4	8.4	.5		3.7
S	2.2	.3	.5	.5		3.1
SW	.0	.4	.4	.0		4.5
W	.6	.3	.9	.3		4.7
NW	7.1	2.7	2.2	1.2		2.8
VAR	.0	.0	.0	.0		.0
CALM	.4	.0	.4	.0		3.5
TOT OBS	134	64	63	18	279	3.2
TOT PCT	48.0	22.9	22.6	6.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ NH ANY HGT	TOTAL OBS
N	.0	.0	.4	.6	1.4	1.0	.4	.0	.0	.0	16.6
NE	.0	.0	.4	.4	.7	.0	.0	.0	.0	.0	11.6
E	.0	.0	.3	.6	1.0	.6	.0	.0	.0	.0	28.2
SE	.0	.0	.2	1.3	2.2	.9	.7	.0	.0	.0	15.9
S	.0	.0	.3	.3	.0	.3	.0	.0	.0	.0	2.8
SW	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	1.2
W	.0	.0	.0	.0	.6	.3	.0	.0	.0	.0	1.2
NW	.0	.0	.0	1.2	.1	.2	.0	.0	.0	.0	11.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4
TOT OBS	0	0	4	12	19	9	3	0	0	0	279
TOT PCT	.0	.0	1.4	4.3	6.8	3.2	1.1	.0	.0	.0	83.2

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			VSBY (NM)			VSBY (NM)			VSBY (NM)		
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>15YD	>7.5YD	>3.75YD	>1.875YD	>.9375YD
>6500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>5000	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
>3500	.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>2000	3.5	3.9	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
>1000	9.5	10.6	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
>600	12.4	15.2	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
>300	12.7	16.3	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
>150	12.7	16.3	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
>0	12.7	16.3	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
TOTAL	36	46	48	48	48	48	48	48	48	48	48	48

TOTAL NUMBER OF OBS: 283

PCT FREQ NH <5/8: 83.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
14.3	22.7	23.1	14.3	7.5	4.2	4.5	5.2	4.2	308

NOVEMBER

PERIOD: (PRIMARY) 1922-1971
(OVER-ALL) 1884-1971AREA 0004 ROCKHAMPTON
23.25 152.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.1	1.1	.0	.5	.2	.0	.0	.0	.0	1.8	
	TOT %	.0	.1	1.1	.0	.5	.2	.0	.0	.0	.0	1.8	
2<5	PCP	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.3	
5<10	PCP	.0	.5	1.5	.7	.0	.0	.0	.3	.0	.0	2.9	
	NO PCP	5.7	7.9	14.5	11.7	1.0	.4	.5	5.2	.0	.8	47.6	
	TOT %	5.7	8.3	16.0	12.3	1.0	.4	.5	5.5	.0	.8	50.6	
10+	PCP	.1	.3	.1	.2	.0	.0	.0	.2	.0	.0	1.0	
	NO PCP	9.7	9.9	12.6	9.6	1.5	.2	.8	5.8	.0	.3	46.3	
	TOT %	9.8	10.2	12.7	9.8	1.5	.2	.8	6.0	.0	.3	47.3	
TOT OBS													611
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.5	.0	.2	.0	.0	.0	.0	.0	.6	.6
	11-21	.0	.1	.4	.0	.0	.2	.0	.0	.0	.0	.6	.6
	22+	.0	.0	.2	.0	.3	.0	.0	.0	.0	.0	.5	.5
	TOT %	.0	.1	1.0	.0	.5	.2	.0	.0	.0	.0	.0	1.7
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.2	.0	.5	.0	.0	.0	.0	.0	.0	.6	.6
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.6
5<10	0-3	.3	1.7	.7	.8	.1	.3	.2	.3	.0	1.1	.9	5.4
	4-10	3.5	4.5	6.0	3.4	.6	.0	.2	2.6	.0	.0	.0	20.8
	11-21	1.5	1.4	7.2	5.8	.3	.1	.1	2.3	.0	.0	.0	18.7
	22+	.2	.0	1.1	1.6	.0	.0	.0	.1	.0	.0	.0	3.0
	TOT %	5.6	7.7	15.1	11.6	.9	.4	.4	5.2	.0	1.1	.9	47.9
10+	0-3	.9	.9	.3	.1	.0	.0	.0	.5	.0	.9	.9	3.6
	4-10	6.0	5.8	8.5	3.7	1.4	.2	.5	3.0	.0	.0	.0	29.2
	11-21	2.7	.4	4.2	5.8	.5	.0	.3	2.3	.0	.0	.0	16.1
	22+	.0	.0	.2	.8	.0	.0	.0	.0	.0	.0	.0	.9
	TOT %	9.6	7.1	13.2	10.4	1.8	.2	.8	5.8	.0	.9	.9	49.8
TOT OBS													664
TOT PCT													100.0

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PERIOD: (PRIMARY) 1922-1971
(OVER-ALL) 1884-1971

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL OBS	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	1.1	3.4	5.7	2.3	1.1	.0	.0	.0	13.8	86.2	87
06009	.0	.0	2.4	3.6	6.0	7.2	2.4	.0	.0	.0	21.7	78.3	83
12015	.0	.0	.0	5.6	4.2	.0	.0	.0	.0	.0	9.9	90.1	71
18021	.0	.0	1.7	5.1	10.2	1.7	.0	.0	.0	.0	18.6	81.4	59
TOT	0	0	4	13	19	9	3	0	0	0	48	252	300
PCT	.0	.0	1.3	4.3	6.3	3.0	1.0	.0	.0	.0	16.0	84.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	2.6	.0	37.0	60.4	154
06009	.0	.0	2.3	1.4	52.6	43.7	215
12015	.0	.0	.7	.0	45.7	53.6	138
18021	.0	.0	1.1	.6	56.4	41.9	179
TOT	0	0	12	4	334	336	686
PCT	.0	.0	1.7	.6	48.7	49.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <3	1000+ AND 3+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	1.2	4.7	9.4	85.9	85
06009	.0	2.6	7.7	15.4	76.9	78
12015	.0	.0	6.3	4.7	89.1	64
18021	.0	1.8	7.1	12.5	80.4	56
TOT	0	4	18	30	235	283
PCT	.0	1.4	6.4	10.6	83.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.2	.2	.0	.0	.0	2	.4
85/89	.0	.0	.0	.2	.2	.2	.0	.0	3	.6
80/84	.0	.0	.2	.2	2.5	4.8	1.2	.6	49	9.5
75/79	.0	.0	.0	1.7	12.0	27.9	17.4	4.3	327	63.4
70/74	.0	.0	.0	1.0	7.4	9.5	5.6	1.9	131	25.4
65/69	.0	.0	.0	.2	.0	.6	.0	.0	4	.8
TOTAL	0	0	1	18	115	222	125	35	516	100.0
PCT	.0	.0	.2	3.5	22.3	43.0	24.2	6.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.0	.0	.1	.1	.0	.0	.0	.0	.0
.1	.0	.0	.2	.0	.0	.2	.1	.0	.0
2.4	1.4	2.5	1.0	.1	.0	.1	1.8	.0	.2
10.9	11.7	18.3	10.7	1.2	.4	.9	8.3	.0	1.0
1.9	2.2	9.4	10.2	1.1	.0	.0	.4	.0	.2
.0	.0	.2	.2	.3	.1	.0	.0	.0	.0
15.5	13.3	30.3	22.3	2.9	.5	1.2	10.7	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	86	85	82	77	73	71	71	77.3	180
06009	90	86	82	77	73	72	70	76.8	252
12015	82	81	78	75	72	69	68	74.9	158
18021	81	80	78	75	72	69	67	75.0	219
TOT	90	84	81	76	72	70	67	76.1	809

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	7.1	26.2	42.9	22.2	1.6	73	126		
06009	.0	4.8	25.3	44.0	19.9	6.0	75	166		
12015	.0	.9	16.4	40.9	31.8	10.0	78	110		
18021	.0	1.5	16.3	41.4	28.6	12.0	78	133		
TOT	0	20	115	227	134	39	76	535		

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(OVER-ALL) 1884-1971AREA 0004 ROCKHAMPTON
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
9/10	.0	.0	.0	.2	.0	.2	.2	1	.0	.6
7/8	.0	.0	.0	.0	.2	.2	.0	2	.0	.4
6	.0	.0	.2	.0	1.0	.0	.0	6	.0	1.1
5	.0	.2	.2	.6	.8	.2	.0	10	.0	1.9
4	.0	.0	.4	1.3	.6	.2	.0	13	.0	2.5
3	.0	.0	.6	3.6	1.7	.0	.0	31	.0	5.9
2	.0	.0	1.7	6.3	1.0	.0	.0	47	.0	9.0
1	.0	.4	5.9	5.5	.8	.0	.0	66	.0	12.6
0	.0	.4	10.3	8.4	.2	.0	.0	101	.0	19.3
-1	.0	.4	10.3	6.1	.0	.0	.0	88	.0	16.8
-2	.0	1.0	9.6	2.7	.0	.0	.0	69	.0	13.2
-3	.0	1.1	6.1	1.0	.0	.0	.0	49	.0	8.2
-4	.0	1.0	2.5	.4	.2	.0	.0	21	.0	4.0
-5	.0	.4	1.3	.6	.0	.0	.0	12	.0	2.3
-6	.0	.8	.0	.2	.0	.0	.0	5	.0	1.0
-7/-8	.0	.4	.0	.0	.0	.0	.0	2	.0	.4
-9/-10	.4	.2	.0	.0	.0	.0	.0	3	.0	.6
TOTAL	2	32	257	193	6.3	4	2	523	0	523
PCT	.4	6.1	49.1	36.9	6.3	.8	.4	100.0		100.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.8	1.8	.0	.0	.0	.0	3.6	.9	.6	.0	.0	.0	.0	1.5
1-2	.5	7.5	.0	.0	.0	.0	8.4	.0	7.6	.1	.0	.0	.0	7.7
3-4	.0	3.5	1.8	.0	.0	.0	5.3	.0	3.5	.5	.0	.0	.0	4.0
5-6	.0	.0	2.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.3	12.8	4.3	.0	.0	.0	19.4	.9	11.7	.6	.0	.0	.0	13.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.6	.0	.0	.0	.0	2.0	.0	1.0	.0	.0	.0	.0	1.0
1-2	.0	10.1	2.0	.0	.0	.0	12.2	.0	4.0	1.0	.0	.0	.0	5.0
3-4	.0	4.2	3.0	.0	.0	.0	7.2	.0	1.1	4.9	.0	.0	.0	6.0
5-6	.0	.9	2.2	.5	.0	.0	3.5	.0	.0	4.7	.9	.0	.0	5.6
7	.0	.0	.5	.0	.0	.0	.5	.0	.0	1.9	.5	.0	.0	2.4
8-9	.0	.0	.5	.0	.0	.0	.5	.9	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	16.8	8.1	.5	.0	.0	25.8	.0	6.1	12.5	2.7	.0	.0	21.4

PERIOD: (OVER-ALL) 1963-1971

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.5	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	
1-2	.0	1.5	.0	.0	.0	.0	1.5	.0	.5	.0	.0	.0	.0	.5	
3-4	.0	.8	.8	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.7	1.1	.0	.0	.0	3.9	.0	.5	.0	.0	.0	.0	.5	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	1.4	.5	.0	.0	.0	.0	1.8	
1-2	.0	.8	.0	.0	.0	.0	.8	.0	2.5	.5	.0	.0	.0	4.0	
3-4	.0	.0	.8	.0	.0	.0	.8	.0	1.4	3.3	.0	.0	.0	4.7	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.9	2.0	.0	.0	.0	3.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.8	.8	.0	.0	.0	1.6	1.4	6.3	5.8	.0	.0	.0	13.4	99.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	7.1	5.8	.0	.0	.0	.0	12.9	
1-2	.4	34.8	4.0	.0	.0	.0	39.3	
3-4	.0	14.3	14.7	.0	.0	.0	29.0	
5-6	.0	1.8	10.7	1.3	.0	.0	13.8	
7	.0	.0	2.7	.4	.0	.0	3.1	
8-9	.0	.0	.4	.4	.0	.0	.9	
10-11	.0	.0	.0	.9	.0	.0	.9	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.6	56.7	32.6	3.1	.0	.0	100.0	224

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	14.1	16.4	9.8	2.7	.8	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	3
6-7	.0	2.3	8.6	8.6	5.5	1.2	.8	.4	.8	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	5
8-9	.0	.4	2.7	4.7	2.3	2.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	6
10-11	.0	1.2	.0	.4	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	5
12-13	.0	.0	.8	.4	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	6
>13	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	4
INDET	.4	.4	2.7	2.3	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	256	4
TOTAL	5	47	80	69	30	13	3	3	1.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
PCT	2.0	18.4	31.3	27.0	11.7	5.1	1.2	1.2	1.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0		

DECEMBER

PERIOD: (PRIMARY) 1916-1971
(OVER-ALL) 1880-1971AREA 0004 ROCKHAMPTON
23.25 152.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	3.3	4.0	.0	.0	.0	.0	.0	7.9	.0	2.4	.9	.0	3.6	.0	85.1
NE	7.0	2.9	3.3	.0	.0	.0	.0	8.4	.0	2.3	1.2	.0	.0	.0	88.2
E	5.1	9.5	.3	.0	.0	.0	.3	15.2	1.0	.6	.0	.0	.6	.0	83.2
SE	1.5	10.4	1.5	.0	.0	.0	.7	14.1	.4	.0	.0	.0	.7	.0	84.8
S	6.3	14.6	.0	.0	.0	.0	6.3	27.1	3.1	.0	.0	.0	.0	.0	69.8
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
W	16.7	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	.0	83.3
NW	4.6	.7	.0	.0	.0	.0	.0	5.3	.0	.0	.7	.0	2.6	.0	91.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.5	7.3	1.1	.0	.0	.0	.5	12.4	.5	.9	.4	.0	1.1	.0	84.8
TOT OBS:	547														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	4.0	5.6	1.6	.0	.0	.0	.0	11.2	.8	.0	.8	.0	.8	.0	86.4
06009	3.6	7.7	1.2	.0	.0	.0	.6	13.0	.0	.0	.6	.0	1.8	.0	84.6
12015	2.6	6.0	.0	.0	.0	.0	.9	9.3	.9	5.2	.0	.0	1.7	.0	83.6
18021	3.3	8.7	1.3	.0	.0	.0	.7	14.0	.7	.0	.0	.0	.0	.0	85.3
TOT PCT	3.4	7.1	1.1	.0	.0	.0	.5	12.1	.5	1.1	.4	.0	1.1	.0	85.0
TOT OBS:	560														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.8	8.4	4.9	.0	.0	.0		15.1	9.0		11.9	14.2	17.0	13.9	18.0	15.0	15.8	13.6
NE	1.8	11.5	3.1	.0	.0	.0		16.3	7.6		12.5	19.9	13.5	20.5	15.6	15.6	18.4	14.8
E	.8	16.7	10.6	1.3	.0	.0		29.3	10.8		37.8	15.9	25.3	30.7	37.3	31.3	34.6	25.6
SE	1.1	9.2	10.8	3.3	.1	.0		24.5	13.6		21.2	25.0	32.3	22.3	18.8	24.4	18.6	28.1
S	.1	1.6	1.6	.5	.0	.0		3.7	13.1		4.5	6.3	4.4	1.8	5.1	1.9	2.8	3.1
SW	.0	.2	.2	.0	.0	.0		.4	10.9		.0	1.1	.2	.6	.4	.0	.8	.0
W	.2	.2	.5	.0	.0	.0		.9	10.0		.0	2.3	1.3	.6	.0	1.3	.4	1.2
NW	.7	3.4	4.2	.0	.0	.0		8.4	10.2		12.2	13.1	4.7	9.6	4.7	10.6	6.8	8.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0		.0	2.3	1.3	.0	.0	.0	1.6	4.9
TOT OBS	58	385	270	39	1	0	753		10.6		78	88	154	83	64	80	125	81
TOT PCT	7.7	51.1	35.9	5.2	.1	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	06	12	18	21
N	5.0	8.8	1.3	.0	.0			15.1	9.0		13.1	15.9	16.3	14.9	
NE	7.2	8.8	.2	.0	.0			16.3	7.6		16.4	15.9	15.6	17.1	
E	6.3	18.5	4.4	.1	.0			29.3	10.8		26.2	27.2	34.0	31.1	
SE	3.0	12.6	8.3	.3	.1			24.5	13.6		23.2	28.8	21.9	22.3	
S	.6	1.9	1.1	.1	.0			3.7	13.1		5.4	3.5	3.3	2.9	
SW	.2	.1	.1	.0	.0			.4	10.9		.6	.3	.2	.3	
W	.4	.4	.1	.0	.0			.9	10.0		1.2	1.1	.7	.7	
NW	1.9	6.2	.3	.0	.0			8.4	10.2		12.7	6.4	8.0	7.5	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	1.3							1.3	.0		1.2	.8	.0	2.9	
TOT OBS	196	432	120	4	1	753			10.6		166	166	144	206	
TOT PCT	26.0	57.4	15.9	.5	.1			100.0			100.0	100.0	100.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1916-1971
(OVER-ALL) 1880-1971

AREA 0004 ROCKHAMPTON
23.2S 152.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	1.2	6.6	45.2	41.6	5.4	.0	.0	11.0	100.0	166
06009	.8	4.6	53.2	34.2	7.2	.0	.0	11.0	100.0	237
12015	.0	7.6	52.1	36.1	3.5	.7	.0	10.7	100.0	144
18021	2.9	7.3	52.9	33.0	3.9	.0	.0	9.7	100.0	206
TOT	10	48	385	270	39	1	0	10.6		753
PCT	1.3	6.4	51.1	35.9	5.2	.1	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.9	2.6	3.6	2.6		3.8
NE	6.3	5.0	2.3	.7		3.1
E	11.3	12.6	8.0	3.7		3.9
SE	5.1	11.3	4.9	3.3		4.1
S	1.5	1.3	1.9	.6		4.5
SW	.1	.0	.0	.1		5.0
W	.0	.0	.0	.0		.0
NW	3.2	1.1	.8	.3		2.7
VAR	.0	.0	.0	.0		.0
CALM	.0	.0	.0	.0		.0
TOT OBS	79	80	51	27	237	3.8
TOT PCT	33.3	33.8	21.5	11.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.6	.0	.4	.8	.7	.3	.0	.4	.0	.0	11.4	
NE	.0	.0	.1	.5	.6	.0	.0	.0	.0	.0	13.1	
E	.0	.0	.3	1.4	3.5	1.6	.0	.0	.0	.0	28.8	
SE	.0	.0	.0	.6	2.8	.1	.2	.0	.0	.0	20.7	
S	.0	.0	.4	.4	.6	.0	.6	.0	.0	.0	3.2	
SW	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
NW	.2	.0	.0	.0	.0	.1	.0	.0	.0	.0	5.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT OBS	2	0	3	9	20	5	2	1	0	0	195	237
TOT PCT	.8	.0	1.3	3.8	8.4	2.1	.8	.4	.0	.0	82.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

	CEILING (FEET)	OR >10	OR >5	OR >2	VSBY (NM)	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
OR >5000	.4	.4	.4	.4	.4	.4	.4	.4	.4	.4
OR >3500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
OR >2000	2.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
OR >1000	9.6	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
OR >600	12.1	15.1	15.5	15.5	15.5	15.5	15.5	15.5	15.5	15.5
OR >300	12.1	15.5	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
OR >150	12.1	15.5	16.7	16.7	16.7	16.7	16.7	16.7	16.7	16.7
OR >0	12.6	15.9	17.2	17.6	17.6	17.6	17.6	17.6	17.6	17.6
TOTAL	30	38	41	42	42	42	42	42	42	42

TOTAL NUMBER OF OBS: 239

PCT FREQ NH <5/8: 82.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
4.6	21.7	22.8	23.2	9.1	3.0	3.4	3.0	8.4	.8		263

DECEMBER

PERIOD: (PRIMARY) 1916-1971
(OVER-ALL) 1880-1971AREA 0004 ROCKHAMPTON
23.25 152.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
	NO PCP	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.5	.5
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.5	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	NO PCP	.3	.0	.0	.0	.0	.0	.0	*	.0	.0	.4	
	TOT %	.3	.0	.0	.0	.0	.0	.0	*	.0	.0	.4	
2<5	PCP	.0	*	.3	*	.2	.0	.0	.2	.0	.0	.7	.7
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	.3	*	.2	.0	.0	.2	.0	.0	.7	
5<10	PCP	.9	1.1	4.2	2.9	.8	.0	.1	.1	.0	.0	10.1	39.3
	NO PCP	7.1	7.1	8.3	10.3	1.5	.3	.3	3.8	.0	.5	39.3	
	TOT %	8.0	8.2	12.5	13.2	2.3	.3	.4	4.0	.0	.5	49.4	
10+	PCP	.3	*	.3	.2	.2	.0	.0	*	.0	.0	1.1	47.7
	NO PCP	6.4	7.2	18.3	11.2	1.7	.1	.2	2.7	.0	.0	47.7	
	TOT %	6.7	7.3	18.6	11.4	1.9	.1	.2	2.7	.0	.0	48.8	
TOT OBS													547
TOT PCT		15.0	15.9	31.4	25.0	4.4	.4	.5	6.9	.0	.5	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
	4-10	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3
	4-10	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.1	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
	4-10	.0	*	.1	.0	.2	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.1	*	.0	.0	.0	.2	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	*	.3	*	.2	.0	.0	.2	.0	.0	.0	
5<10	0-3	.7	.4	.7	.8	.0	.0	.0	.3	.0	.5	3.4	22.9
	4-10	3.7	5.9	5.2	6.1	1.1	.1	.0	.8	.0	.0	22.9	
	11-21	3.0	1.6	5.3	4.5	.6	.2	.3	2.5	.0	.0	18.0	
	22+	.0	.0	.6	1.4	.7	.0	.0	.0	.0	.0	2.7	
	TOT %	7.4	7.9	11.8	12.8	2.3	.3	.3	3.7	.0	.5	46.9	
10+	0-3	.7	1.2	.3	.2	.0	.0	.0	.0	.0	.2	2.5	21.2
	4-10	4.1	5.6	11.6	3.1	.4	*	.0	1.2	.0	.0	26.1	
	11-21	2.1	1.5	7.3	7.2	1.4	*	.3	1.3	.0	.0	21.2	
	22+	.0	*	.3	1.2	.0	.0	.0	.0	.0	.0	1.5	
	TOT %	6.8	8.4	19.5	11.6	1.8	.1	.3	2.6	.0	.2	51.3	
TOT OBS													595
TOT PCT		14.5	16.6	31.6	24.9	4.3	.3	.7	6.4	.0	.7	100.0	

DECEMBER

PERIOD: (PRIMARY) 1914-1971
(OVER-ALL) 1880-1971

AREA 0004 ROCKHAMPTON
23.25 152.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
0000	149	299	599	999	1999	3499	4999	6499	7999				
0000	.0	.0	2.6	2.6	7.9	3.9	.0	1.3	.0	.0	18.4	81.6	76
0600	1.4	.0	1.4	5.6	5.6	1.4	1.4	.0	.0	.0	16.7	83.3	72
1200	.0	.0	.0	1.6	11.1	1.6	1.6	.0	.0	.0	15.9	84.1	63
1800	2.2	.0	.0	4.4	6.7	.0	.0	.0	.0	.0	13.3	86.7	45
TOT	2	0	3	9	20	5	2	1	0	0	42	214	256
PCT	.8	.0	1.2	3.5	7.8	2.0	.8	.4	.0	.0	16.4	83.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
0000	.8	.8	.0	2.3	37.1	59.1	132
0600	.0	.5	.5	.5	49.5	48.9	190
1200	.0	.8	.8	.0	37.4	61.0	123
1800	.6	.0	.0	.0	61.3	38.0	163
TOT	2	3	2	4	289	308	608
PCT	.3	.5	.3	.7	47.5	50.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ ANDS+	NM <5/8 AND 5+	TOTAL OBS
0000	.0	4.3	7.1	14.3	78.6	70
0600	1.5	3.0	9.0	9.0	82.1	67
1200	.0	.0	1.6	14.8	83.6	61
1800	2.4	2.4	7.3	7.3	85.4	41
TOT	2	6	15	28	196	239
PCT	.8	2.5	6.3	11.7	82.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.2	.0	.0	.9	.5	.0	7	1.6
80/84	.0	.0	.2	.5	2.5	8.8	7.2	2.9	98	22.2
75/79	.0	.0	.0	1.8	12.0	29.6	14.9	8.8	297	67.2
70/74	.0	.0	.0	1.1	2.3	2.0	.5	3.2	40	9.0
TOTAL	0	0	2	19	74	183	102	66	442	100.0
PCT	.0	.0	.5	3.4	16.7	41.4	23.1	14.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.9	.0	.0	.0	.0	.0	.1	.3	.0	.2
80/84	5.0	4.8	3.3	3.0	.8	.1	.2	5.0	.0	.0
75/79	9.6	8.7	23.8	17.6	3.8	.3	.3	2.7	.0	.5
70/74	.3	.6	4.9	2.7	.3	.0	.0	.3	.0	.0
TOTAL	15.8	14.0	32.0	23.2	5.0	.3	.7	8.3	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
0000	86	85	83	78	74	71	70	78.5	167
0600	88	87	85	78	74	72	71	78.3	236
1200	84	82	81	77	74	72	70	77.2	147
1800	87	85	81	77	73	72	70	77.1	209
TOT	88	86	82	78	74	72	70	77.8	759

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
0000	.0	7.6	18.1	46.7	14.3	13.3	75	105
0600	.0	2.9	19.0	47.4	18.2	12.4	77	137
1200	.0	2.1	10.4	39.6	32.3	15.6	79	96
1800	.0	3.4	17.2	32.8	29.3	17.2	79	116
TOT	0	18	75	190	105	66	77	454

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PERIOD: (PRIMARY) 1916-1971
(OVER-ALL) 1880-1971

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	69 72	73 76	77 80	81 84	85 88	TOT	M FOG	WU FOG
9/10	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.4	.4	4	.0	.9
6	.0	.0	.2	.4	.4	5	.0	1.1
5	.0	.0	.2	.7	.4	6	.2	1.1
4	.0	.2	1.3	1.1	.2	13	.0	2.9
3	.0	.4	3.1	3.6	.2	33	.0	7.4
2	.0	.0	7.4	2.2	.0	43	.0	9.6
1	.0	1.3	4.2	2.9	.0	60	.0	13.3
0	.0	3.8	15.9	1.6	.0	95	.0	21.3
-1	.0	5.6	10.3	.2	.0	78	.2	16.1
-2	.2	6.3	4.7	.2	.0	51	.0	11.4
-3	.0	3.6	2.5	.2	.0	28	.0	6.3
-4	.4	2.5	1.1	.0	.0	18	.0	4.0
-5	.0	1.6	.2	.0	.0	8	.0	1.8
-6	.2	.2	.0	.0	.0	2	.0	.4
-7/-8	.2	.7	.2	.0	.0	5	.0	1.1
-11/-13	.0	.2	.0	.0	.0	1	.0	.2
TOTAL	5		253		9	446	2	444
PCT	1.1	26.5	56.7	13.7	2.0	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.5	.0	.0	.0	.0	.5	.7	.8	.0	.0	.0	.0	1.4
1-2	.0	4.5	1.7	.0	.0	.0	6.2	.5	6.7	1.2	.0	.0	.0	8.4
3-4	.0	2.6	2.6	.0	.0	.0	5.3	.0	1.7	1.1	.1	.0	.0	2.9
5-6	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.6	4.9	.0	.0	.0	13.4	1.2	9.2	2.2	.1	.0	.0	12.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	1.6	.0	.0	.0	.0	2.0	.0	.8	.0	.0	.0	.0	.8
1-2	.0	13.7	.5	.0	.0	.0	14.2	.0	2.8	2.6	.0	.0	.0	5.4
3-4	.0	3.9	6.4	.4	.0	.0	10.8	.0	1.2	4.6	2.1	.0	.0	7.9
5-6	.0	.9	5.1	.0	.0	.0	6.1	.0	.1	5.9	.5	.0	.0	6.6
7	.0	.0	1.4	.5	.0	.0	2.0	.0	.0	3.0	.5	.0	.0	3.6
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	1.1	.0	.0	1.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	20.1	13.9	.9	.0	.0	35.4	.0	4.9	16.3	4.7	.0	.0	25.9

PERIOD: (OVER-ALL) 1963-1971

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.7	.0	.0	.0	.0	.0	1.7	.0	.1	.0	.0	.0	.0	.0	.1
3-4	.0	.5	1.6	.0	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0
5-6	.0	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	1.7	.0	.0	.0	.0	1.7	.0	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	2.2	4.3	.0	.0	.0	.0	6.6	.0	.1	.1	.0	.0	.0	.0	.3

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.8	.0	.0	.0	.0	1.8	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	1.6	.0	.0	.0	.0	2.1	
5-6	.0	.0	.5	.0	.0	.0	.0	.5	.0	.1	.5	.0	.0	.0	.0	.7	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.5	.0	.0	.0	.0	.5	.0	2.2	2.9	.0	.0	.0	.0	5.1	100.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.6	4.2	.0	.0	.0	.0	5.8	
1-2	.5	30.4	6.8	.0	.0	.0	37.7	
3-4	.0	10.5	17.8	2.6	.0	.0	30.9	
5-6	.0	2.1	13.1	.5	.0	.0	15.7	
7	.0	.0	6.8	1.0	.0	.0	7.9	
8-9	.0	.0	.5	1.0	.0	.0	1.6	
10-11	.0	.0	.0	.5	.0	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	2.1	47.1	45.0	5.8	.0	.0	100.0	191

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.4	17.2	14.5	7.5	3.5	.9	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	4
6-7	.0	.9	7.5	7.0	4.8	4.0	3.1	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	6
8-9	.0	.4	2.6	5.7	2.6	1.8	.9	.4	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	35	6
10-11	.0	.0	.0	.0	.9	1.3	.9	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	8
12-13	.0	.0	.4	.0	.0	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	0
INDET	1.3	.0	2.2	.4	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	4
TOTAL	4	42	62	49	29	17	16	2	4	1	1	0	0	0	0	0	0	0	0	227	5
PCT	1.8	18.5	27.3	21.6	12.8	7.5	7.0	.9	1.8	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.2	2.4	1.1	.0	.0	.0	.0	5.6	1.0	2.4	.4	.0	1.9	.0	88.7
NE	4.1	7.2	1.2	.0	.0	.0	.0	11.6	1.7	1.5	.9	.0	.3	.0	80.7
E	3.7	7.1	.4	.0	.0	.0	*	11.1	1.6	1.0	.3	.0	.8	.1	85.3
SE	2.7	7.4	.6	.0	.0	.0	.1	10.7	2.1	.5	.3	.0	.5	.1	85.8
S	3.9	4.8	.5	.0	.0	.0	.5	9.8	1.3	1.2	.5	.0	2.6	.0	84.7
SW	7.9	5.1	.1	.0	.0	.0	.0	13.1	.4	1.2	.3	.0	2.9	.0	82.8
W	3.3	3.7	.0	.0	.0	.0	.0	6.9	.2	2.5	.0	.0	.9	.0	90.6
NW	2.3	3.3	.4	.0	.0	.0	.0	5.9	.2	.4	.4	.0	1.7	.0	91.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9	1.9	.7	.0	.0	.0	.0	4.6	1.2	.0	.2	.0	3.6	.0	90.5
TOT PCT	2.9	5.6	.6	.0	.0	.0	*	9.2	1.4	1.0	.4	.0	1.1	*	87.0
TOT OBS:	7805														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG NO PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.6	5.2	.4	.0	.0	.0	.0	8.2	1.3	.1	.3	.0	1.7	.1	88.3
06009	2.5	5.6	.8	.0	.0	.0	*	8.9	1.2	.6	.7	.0	1.3	.0	87.4
12015	2.7	5.3	.2	.0	.0	.0	.1	8.3	1.7	2.5	.2	.0	.9	.0	86.7
18021	3.6	6.4	.8	.0	.0	.0	.1	10.9	1.5	1.2	.5	.0	.6	.0	85.6
TOT PCT	2.9	5.6	.6	.0	.0	.0	*	9.1	1.4	1.0	.4	.0	1.1	*	87.0
TOT OBS:	8067														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	1.1	5.2	2.1	.1	.0	.0		8.4	8.1	6.8	7.8	8.8	10.0	8.2	10.6	8.1	7.0	
NE	1.3	7.2	1.7	.1	.0	.0		10.4	7.5	6.4	10.2	8.3	12.4	9.8	14.3	11.4	11.9	
E	1.5	10.3	8.4	1.3	.1	.0		22.2	11.0	23.7	17.8	20.0	23.9	26.3	24.0	24.8	19.1	
SE	1.1	10.5	15.3	9.8	.3	.0		31.0	13.5	33.0	30.8	35.4	30.7	33.8	27.5	27.4	28.1	
S	.8	4.6	4.6	.9	.1	*		11.0	12.1	13.2	14.1	12.0	6.8	9.7	7.5	10.4	13.8	
SW	.5	2.4	2.0	.2	*	*		5.2	11.5	6.1	6.9	4.7	3.8	2.5	4.4	5.1	7.0	
W	.5	1.6	.7	.1	*	*		2.8	9.3	2.2	3.3	2.8	2.6	2.9	2.6	2.7	3.5	
NW	.9	3.6	1.8	.1	*	*		6.4	8.4	6.8	7.0	5.9	7.7	3.6	6.8	6.1	7.2	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.6							2.6	.0	1.7	2.0	2.1	2.2	3.1	2.2	3.9	3.0	
TOT OBS							10868		10.9	1028	1350	2189	1227	893	1169	1857	1159	
TOT PCT	10.3	45.8	36.6	6.7	.6	*		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	3.5	4.4	.5	*	.0		8.4	8.1	7.3	9.2	9.5	7.7	
NE	5.1	4.9	.4	*	.0		10.4	7.5	8.4	9.7	12.2	11.5	
E	5.5	12.2	4.1	.4	*		22.2	11.0	20.4	21.4	25.1	22.6	
SE	4.3	15.9	9.7	1.1	*		31.0	13.5	31.6	33.8	30.4	27.6	
S	2.5	5.8	2.5	.2	*		11.0	12.1	13.8	10.1	8.3	11.6	
SW	1.6	2.6	.9	.1	*		5.2	11.5	6.7	4.4	3.8	5.9	
W	1.3	1.2	.3	*	*		2.8	9.3	2.9	2.7	2.7	3.0	
NW	2.6	3.4	.4	.1	.0		6.4	8.4	7.0	6.5	5.4	6.5	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.6						2.6	.0	1.9	2.2	2.6	3.6	
TOT OBS						10868		10.9	2378	3416	2082	3012	
TOT PCT	28.9	50.3	18.7	2.0	.1		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOURL	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.9	6.7	45.1	39.1	6.7	.5	.0	11.2	100.0	2378
06009	2.2	8.5	45.1	36.5	7.1	.5	.1	11.0	100.0	3416
12015	2.6	7.3	45.3	37.0	7.2	.7	.0	11.1	100.0	2062
18021	3.6	8.0	47.7	34.3	5.8	.5	*	10.5	100.0	3012
TOT								10.9		10868
PCT	2.6	7.7	45.8	36.6	6.7	.6	*		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.7	1.2	1.8	.6		2.9
NE	3.8	1.7	1.4	1.0		3.7
E	8.5	6.1	6.7	2.7		3.9
SE	9.7	9.9	10.6	4.2		4.0
S	4.9	3.0	2.7	1.1		3.5
SW	2.7	.9	.9	.3		2.5
W	1.6	.4	.5	.2		2.6
NW	3.0	1.0	.6	.3		2.4
VAR	.0	.0	.0	.0		.0
CALM	1.9	.1	.3	.1		1.9
TOT OBS					3347	3.6
TOT PCT	39.6	24.3	25.6	10.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.1	.0	.1	.2	.6	.4	.1	*	.0	.0	.0	5.7
NE	*	.0	.1	.3	.7	.3	.1	*	.0	.0	.0	6.3
E	.0	.0	.4	1.2	2.8	1.0	.4	*	*	*	*	18.0
SE	*	*	.6	2.7	4.4	1.6	.4	*	.1	*	*	24.5
S	.0	.1	.2	.6	1.5	.2	.2	*	*	*	.1	8.9
SW	.1	*	.1	.1	.2	.2	.1	.0	.0	.1	.0	4.0
W	.0	*	*	.1	.1	.2	.1	.0	.0	.0	.0	2.2
NW	*	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	4.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	*	.1	.1	.1	.0	.0	.0	.0	2.0
TOT OBS												3347
TOT PCT	.2	.2	1.5	5.4	10.5	4.1	1.5	.2	.1	.2	76.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
= OR >5000	.4	.5	.5	.5	.5	.5	.5	.5
= OR >3500	1.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9
= OR >2000	5.3	5.9	6.0	6.0	6.0	6.0	6.0	6.0
= OR >1000	13.7	16.0	16.4	16.4	16.5	16.5	16.5	16.5
= OR >600	17.4	21.0	21.7	21.8	21.8	21.8	21.8	21.8
= OR >300	17.7	22.0	22.9	23.2	23.2	23.2	23.2	23.2
= OR >150	17.7	22.0	23.1	23.3	23.3	23.3	23.4	23.4
= OR >0	17.9	22.2	23.2	23.5	23.6	23.6	23.6	23.6

TOTAL NUMBER OF OBS: 3393

PCT FREQ NH <5/8: 76.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
11.3	20.4	18.9	15.7	9.3	6.9	5.9	4.9	6.5	.1	3703

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	*	.0	.0	*	.0	.0	*	.1
	NO PCP	*	*	*	.0	.0	.0	.0	*	.0	.0	*	
	TOT %	*	*	*	*	*	.0	.0	*	.0	.0	*	
1/2<1	PCP	.0	*	*	.1	.1	*	.0	.0	.0	.0	.3	.3
	NO PCP	*	.1	.1	.1	*	*	.0	*	.0	*	*	
	TOT %	*	.1	.1	.2	.1	.1	.0	*	.0	*	.6	
1<2	PCP	*	*	.1	*	*	*	.0	*	.0	.0	.1	.6
	NO PCP	.2	*	.1	.1	.1	*	*	*	.0	*	*	
	TOT %	.2	*	.2	.1	.1	*	*	*	.0	*	.7	
2<5	PCP	*	*	.1	.2	.1	*	.0	*	.0	*	.5	.2
	NO PCP	.0	*	*	.1	*	.0	.0	.0	.0	.0	*	
	TOT %	*	.1	.1	.3	.1	*	.0	*	.0	*	.6	
5<10	PCP	.3	.8	1.7	2.7	.7	.2	.1	.2	.0	.1	7.0	42.1
	NO PCP	3.6	4.4	8.0	12.2	5.1	2.9	1.6	3.4	.0	1.0	42.1	
	TOT %	3.9	5.2	9.7	14.9	5.8	3.2	1.7	3.6	.0	1.1	49.1	
10+	PCP	.1	.1	.4	.5	.2	*	.0	*	.0	*	1.4	48.8
	NO PCP	3.8	4.0	11.6	15.7	5.2	2.2	1.3	2.5	.0	1.2	47.5	
	TOT %	3.8	4.1	12.0	16.2	5.4	2.2	1.3	2.5	.0	1.3	48.8	
TOT OBS		7803											
TOT PCT		8.0	9.5	22.1	31.7	11.5	5.5	3.0	6.2	.0	2.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	.1
	4-10	*	.0	*	*	*	.0	.0	*	.0	.0	*	
	11-21	.0	*	*	*	*	*	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	*	*	*	*	*	*	*	.0	.0	.1	
1/2<1	0-3	.0	*	*	*	*	.0	.0	.0	.0	*	.1	.2
	4-10	.0	.1	.0	.1	*	*	.0	.0	.0	.0	.2	
	11-21	*	.0	.1	.1	*	*	.0	.0	.0	.0	.1	
	22+	.0	.0	*	*	*	*	.0	.0	.0	*	.6	
	TOT %	*	.1	.1	.2	.1	*	.0	*	.0	*	.6	
1<2	0-3	.0	*	.0	.0	.0	.0	.0	.0	.0	*	.1	.2
	4-10	.1	*	.1	*	.1	*	*	.0	.0	.0	.4	
	11-21	.1	*	.1	.1	*	*	.0	.0	.0	.0	.2	
	22+	*	*	.1	*	*	*	*	*	.0	*	.8	
	TOT %	.2	*	.2	.2	.1	*	*	*	.0	*	.8	
2<5	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	*	*	.1
	4-10	*	*	*	*	*	.0	.0	.0	.0	.0	.4	
	11-21	*	*	.1	.2	*	*	.0	.0	.0	.0	.2	
	22+	*	.0	.1	.1	*	.0	.0	*	.0	*	.8	
	TOT %	*	*	.2	.4	.1	*	.0	*	.0	*	.8	
5<10	0-3	.5	.7	.7	.6	.3	.4	.3	.5	.0	1.0	5.1	20.3
	4-10	2.1	3.3	4.0	4.7	2.2	1.3	.8	1.8	.0	.0	20.3	
	11-21	1.0	.8	3.8	6.6	2.2	1.0	.4	1.0	.0	.0	16.9	
	22+	*	.1	.5	2.0	.5	.1	*	.1	.0	.0	3.4	
	TOT %	3.7	4.9	9.1	13.8	5.4	2.9	1.5	3.4	.0	1.0	45.7	
10+	0-3	.4	.5	.7	.4	.4	.1	.2	.2	.0	1.4	4.3	23.6
	4-10	2.7	3.3	6.4	5.4	2.2	1.1	.7	1.6	.0	.0	23.6	
	11-21	1.1	.8	4.9	9.2	2.5	1.0	.4	1.0	.0	.0	20.9	
	22+	*	*	.5	1.9	.5	.2	.1	*	.0	.0	3.2	
	TOT %	4.2	4.6	12.5	17.0	5.5	2.5	1.3	2.9	.0	1.4	52.0	
TOT OBS		8636											
TOT PCT		8.1	9.7	22.1	31.6	11.2	5.4	2.9	6.4	.0	2.5	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL DBS	NH <5/8 ANY HGT	TOTAL DBS
00003	.1	.0	1.3	4.8	11.1	3.6	1.4	.3	.2	.1	22.9	77.1	1017
06009	.3	.0	1.4	5.7	9.8	5.0	1.7	.1	.2	.2	24.5	75.5	1001
12015	.0	.3	1.5	5.1	8.8	3.3	1.2	.1	.0	.2	20.4	79.6	851
18021	.5	.4	1.1	4.3	9.5	3.2	1.1	.0	.1	.2	20.4	79.6	732
TOT PCT	.2	.1	1.4	5.0	9.9	3.8	1.4	.1	.1	.2	22.3	77.7	3601 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	.1	.3	1.2	.9	36.5	61.0	1917
06009	.1	.8	1.1	.8	49.1	48.3	2800
12015	.2	.4	.4	.8	41.3	56.9	1749
18021	.2	.7	.6	.7	54.5	43.3	2432
TOT PCT	.1	.6	.8	.8	46.3	51.4	8898 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL DBS
00003	.1	1.6	7.1	17.0	75.9	972
06009	.3	1.8	8.4	17.4	74.2	948
12015	.0	1.9	8.1	14.3	77.6	794
18021	.5	2.3	7.5	14.5	78.0	679
TOT PCT	.2	1.9	7.8	16.0	76.2	3393 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
90/94	.0	.0	.0	*	*	.0	.0	.0	.1	.1
85/89	.0	.0	*	.2	.2	.4	.1	*	.9	.9
80/84	.0	.0	*	.4	2.3	4.8	3.2	1.2	12.1	12.1
75/79	.0	*	.2	1.4	6.8	15.6	8.9	3.9	36.8	36.8
70/74	.0	.1	.6	2.3	6.9	8.9	6.0	4.0	28.7	28.7
65/69	.0	.1	.7	2.4	3.4	4.7	4.1	2.3	17.8	17.8
60/64	.0	.1	.1	.6	.6	.6	.8	.3	3.2	3.2
55/59	.0	.0	.0	*	.1	.1	.2	.1	.4	.4
50/54	.0	.0	.0	.0	.0	*	.2	*	.2	.2
TOTAL PCT	.0	.3	1.7	7.3	20.3	35.1	23.4	11.8	6395	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	.0	.0	*	*	.0	.0	.0	.0	.0
.1	.1	.2	.2	.1	.0	.1	*	.0	.1
1.6	1.6	2.7	3.4	.6	.2	.3	1.3	.0	.3
3.3	4.2	10.2	12.4	2.4	.7	.7	2.2	.0	.7
2.5	2.4	6.8	9.1	3.4	1.4	.5	1.7	.0	.8
.6	1.0	2.4	5.7	3.9	1.7	.9	.9	.0	.7
.0	*	.1	.5	1.0	1.1	.3	.1	.0	.1
.0	.0	.0	.0	.1	.2	*	.0	.0	.1
.0	.0	.0	.0	.1	.1	*	.0	.0	.0
8.2	9.3	22.4	31.3	11.5	5.3	3.0	6.2	.0	2.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	90	82	80	75	69	66	56	74.4	2362
06009	92	82	79	75	70	67	51	74.0	3455
12015	85	78	77	73	69	67	51	73.0	2083
18021	88	79	77	73	68	64	51	72.3	3070
TOT	92	81	79	74	69	66	51	73.4	10970

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	12.1	25.7	36.6	17.3	8.3	73	1459
06009	.0	10.7	22.0	35.9	20.3	11.1	74	2022
12015	.0	6.8	16.8	36.6	27.5	12.3	76	1357
18021	.0	7.1	16.2	31.8	29.1	15.8	77	1754
TOT	0	648	1355	2266	1537	786	75	6592

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PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1863-1972AREA 0004 ROCKHAMPTON
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	*	.0	.0	*	*	7	.0	.1
9/10	.0	.0	.0	.0	.0	*	*	.1	.1	.1	*	19	.0	.3
7/8	.0	.0	.0	.0	*	.1	.1	.1	.1	.1	.0	33	.0	.5
6	.0	.0	.0	.0	.1	*	.2	.2	.2	.1	.0	54	.0	.8
5	.0	.0	.0	.0	*	.1	.3	.5	.4	.2	.0	97	*	1.5
4	.0	.0	.0	.0	.1	.3	.5	.7	.4	.3	.0	157	.0	2.4
3	.0	.0	.0	*	.1	.8	1.0	1.4	1.2	.1	.0	298	*	4.6
2	.0	.0	.0	*	.4	1.3	1.7	2.5	1.4	*	.0	465	*	7.3
1	.0	.0	.0	.1	.7	2.2	2.7	3.9	1.4	.0	.0	690	*	10.9
0	.0	.0	*	.1	1.0	3.2	4.2	5.6	1.1	.0	.0	982	*	15.2
-1	.0	.0	.0	.1	1.5	4.1	4.7	5.3	.5	.0	.0	1051	.1	16.1
-2	.0	.0	*	.2	1.4	3.4	3.6	3.7	.2	.0	.0	842	*	12.5
-3	.0	.0	*	.3	1.4	2.4	2.8	1.9	.2	.0	.0	618	*	9.1
-4	.0	.0	.1	.5	1.7	1.8	1.7	1.0	*	.0	.0	481	*	6.8
-5	.0	*	.1	.3	1.5	1.1	1.0	.7	.0	.0	.0	327	*	4.6
-6	.0	.0	.1	.3	.9	.8	.4	.2	.0	.0	.0	187	.0	2.6
-7/-8	*	.1	.2	.7	.8	.5	.3	.1	*	.0	.0	207	*	2.7
-9/-10	.1	.1	.1	.4	.3	.1	*	*	.0	.0	.0	83	.0	1.1
-11/-13	*	*	.2	.2	*	.1	*	.0	.0	.0	.0	42	.0	.5
-14/-16	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	2	.0	*
TOTAL												6642		
PCT	.1	.2	.7	3.1	12.0	22.4	25.4	27.9	7.1	1.0	.1	100.0	.3	99.7

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.8	*	.0	.0	.0		1.2	.4	1.0	.0	.0	.0	.0		1.4
1-2	.2	2.4	.4	.0	.0	.0		3.0	.1	3.3	.5	.0	.0	.0		3.9
3-4	*	1.2	.7	*	.0	.0		1.9	*	1.2	.6	.0	.0	.0		1.8
5-6	.0	.1	.5	.0	.0	.0		.6	.0	.2	.3	.0	.0	.0		.5
7	.0	.0	.1	*	.0	.0		.1	.0	.0	.2	.0	.0	.0		.2
8-9	.0	.0	*	.0	.0	.0		*	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.5	4.6	1.7	*	.0	.0		6.9	.5	5.6	1.6	*	.0	.0		7.7

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	1.4	*	.0	.0	.0		1.6	.1	1.0	*	.0	.0	.0		1.1
1-2	.2	6.4	1.6	.0	.0	.0		8.3	.1	4.8	2.5	.0	.0	.0		7.4
3-4	*	3.1	4.7	.2	.0	.0		7.9	*	2.8	7.4	.7	.0	.0		11.0
5-6	.0	.9	3.1	.2	.0	.0		4.2	.0	.6	6.4	1.0	.1	.0		8.0
7	.0	.1	1.0	.6	.0	.0		1.6	.0	.1	2.2	1.5	.1	.0		3.8
8-9	.0	.0	.2	.1	.0	.0		.3	.0	*	.5	.6	.1	.0		1.2
10-11	.0	.0	.2	.1	.0	.0		.3	.0	.0	.1	.7	.1	.0		.9
12	.0	.0	.0	*	.0	.0		*	.0	.0	*	.1	.1	.0		.2
13-16	.0	*	*	.1	.0	.0		.1	.0	.0	.1	.2	.1	.0		.3
17-19	.0	*	.0	.0	.0	.0		*	.0	*	*	.0	.0	.0		.1
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.5	11.9	10.8	1.3	.0	.0		24.4	.2	9.3	19.3	4.8	.5	.0		34.1

PERIOD: (OVER-ALL) 1963-1972

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TABLE 18 (CONT)AREA 0004 ROCKHAMPTON
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.2	.5	.1	.0	.0	.0	.7	.1	.3	.2	.0	.0	.0	.4	
1-2	.2	2.3	.9	.0	.0	.0	3.3	.1	1.0	.2	.0	.0	.0	1.2	
3-4	.1	1.5	2.8	.1	.0	.0	4.5	.0	.4	1.3	.1	.0	.0	1.7	
5-6	.0	.1	1.5	.3	.0	.0	1.9	.0	.1	.6	.2	.0	.0	.9	
7	.0	.0	.7	.3	.1	.0	1.1	.0	.0	.2	.1	.0	.0	.3	
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.1	.1	.0	.0	.1	
10-11	.0	.0	.1	.2	.1	.0	.3	.0	.0	.0	.1	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	4.4	6.1	1.2	.2	.0	12.6	.2	1.8	2.3	.4	.0	.0	4.7	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.1	.2	.0	.0	.0	.0	.3	.2	.4	.0	.0	.0	.0	.6		
1-2	.1	.8	.2	.0	.0	.0	1.1	.1	1.5	.3	.0	.0	.0	1.8		
3-4	.0	.2	.5	.0	.0	.0	.7	.0	.7	1.0	.0	.0	.0	1.7		
5-6	.0	.0	.1	.1	.0	.0	.3	.0	.1	.4	.0	.0	.0	.4		
7	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1		
8-9	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.2	1.2	.9	.2	.0	.0	2.6	.3	2.6	1.7	.1	.0	.0	4.8	97.7	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	4.4	5.5	.1	.0	.0	.0	10.1	
1-2	1.4	22.2	6.4	.0	.0	.0	30.1	
3-4	.3	11.0	18.7	1.1	.0	.0	31.1	
5-6	.0	2.1	12.7	1.8	.1	.0	16.7	
7	.0	.2	4.4	2.4	.2	.0	7.1	
8-9	.0	.0	1.0	1.0	.2	.0	2.3	
10-11	.0	.0	.4	1.1	.2	.0	1.6	
12	.0	.0	.0	.1	.1	.0	.2	
13-16	.0	.0	.1	.3	.1	.0	.6	
17-19	.0	.0	.0	.0	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.2	41.1	43.9	8.0	.8	.0	100.0	2784

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	11.2	14.2	7.2	2.9	.9	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1261
6-7	.0	1.6	8.8	11.1	5.9	3.1	1.6	.6	.8	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	1074
8-9	.0	.3	1.8	4.9	3.7	2.7	1.5	.6	.8	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	549
10-11	.0	.4	.1	.9	.5	.7	.4	.3	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	114
12-13	.0	.0	.6	.2	.3	.1	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52
>13	.0	.0	.0	.3	.1	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	32
INDET	1.7	.5	1.0	.7	.3	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	151
TOT PCT	3.5	14.0	26.5	25.3	13.7	7.6	4.7	1.7	2.1	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	3219
																					100.0

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1863-1972

AREA 0004 ROCKHAMPTON
23.25 152.2E

TABLE 20

SEA TMP DEG F	PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH												ANN	PCT
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	.1	.0	4	.2
85/86	.4	.6	.3	.0	.0	.0	.0	.0	.0	.0	.4	.5	15	.2
83/84	5.0	5.8	3.8	.1	.0	.0	.0	.0	.0	.0	.3	1.1	111	1.2
81/82	23.3	25.5	17.0	4.7	.1	.0	.0	.0	.0	.3	1.7	7.2	555	5.7
79/80	39.6	38.3	39.3	17.3	2.4	.3	.1	.2	.0	.8	9.6	28.8	1254	13.0
77/78	23.6	20.6	29.3	34.2	12.8	1.7	.2	.6	.7	4.8	35.7	40.0	1528	15.9
75/76	6.9	5.8	7.9	27.2	28.4	7.1	2.0	2.7	7.1	19.3	32.6	19.0	1366	14.2
73/74	.9	2.2	1.4	11.6	31.0	27.0	9.9	11.2	18.3	36.6	14.3	2.9	1488	15.3
71/72	.1	.9	.4	3.5	16.2	34.8	26.9	23.9	27.2	29.2	6.4	.5	1460	15.2
69/70	.0	.3	.3	.2	7.6	16.5	27.7	31.2	27.6	6.7	.6	.0	1007	10.5
67/68	.0	.0	.0	.2	1.0	9.6	15.9	19.4	14.4	2.4	.4	.0	531	5.5
65/66	.0	.0	.0	.4	.3	2.4	9.2	5.6	4.0	.0	.0	.0	187	1.9
63/64	.0	.0	.0	.6	.1	.4	4.3	3.6	.4	.0	.0	.0	81	.8
61/62	.0	.0	.0	.0	.2	.3	2.6	1.1	.1	.0	.0	.0	39	.4
59/60	.0	.0	.0	.0	.0	.0	1.1	.4	.0	.0	.0	.0	13	.1
57/58	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	*
55/56	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
53/54	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	682	671	730	834	1163	1005	917	804	673	777	712	652	9620	100.0
MEAN	79.4	79.4	78.9	76.6	73.9	71.4	69.3	69.7	70.7	73.1	76.2	77.9	74.7	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL DBS
JAN	1011	1008	1009	1007	1010	1008	1008	1007	1009	441
FEB	1011	1009	1009	1009	1011	1008	1009	1009	1009	499
MAR	1014	1012	1011	1012	1013	1014	1012	1012	1012	499
APR	1016	1015	1014	1014	1016	1014	1014	1015	1015	642
MAY	1018	1016	1015	1015	1017	1015	1015	1016	1016	851
JUN	1020	1018	1017	1018	1019	1018	1017	1018	1018	762
JUL	1020	1018	1017	1017	1019	1018	1017	1019	1018	635
AUG	1020	1019	1017	1018	1018	1019	1017	1018	1018	607
SEP	1019	1018	1016	1018	1017	1018	1017	1017	1017	499
OCT	1019	1017	1015	1016	1018	1017	1016	1017	1017	630
NOV	1015	1016	1013	1015	1015	1016	1014	1016	1014	589
DEC	1013	1012	1011	1010	1013	1011	1011	1012	1012	480
ANN	1016	1015	1014	1014	1016	1015	1014	1015	1015	7154
DBS	1007	621	1964	606	873	598	1304	581		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	992	995	1001	1007	1010	1012	1015	1017	1018
FEB	983	989	1001	1007	1010	1013	1016	1017	1018
MAR	994	1001	1006	1011	1013	1015	1018	1019	1021
APR	1002	1006	1009	1012	1013	1017	1020	1021	1023
MAY	1000	1006	1009	1014	1016	1018	1021	1023	1024
JUN	1005	1009	1010	1015	1018	1021	1024	1026	1027
JUL	1005	1007	1012	1016	1018	1020	1023	1026	1028
AUG	1004	1007	1011	1016	1019	1021	1023	1025	1033
SEP	1006	1008	1010	1015	1018	1020	1024	1025	1028
OCT	1005	1006	1010	1015	1017	1019	1022	1024	1025
NOV	1003	1004	1007	1011	1015	1018	1021	1023	1030
DEC	1001	1003	1006	1009	1012	1014	1017	1019	1023

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.3	3.9	.5	.0	.0	.0	.0	8.7	.0	4.1	1.9	.0	3.9	.0	83.4
NE	2.0	6.4	.5	.0	.0	.0	.0	8.9	2.0	2.7	.0	.0	1.8	.0	84.5
E	6.8	12.4	.6	.0	.0	.0	.0	19.8	4.3	2.4	.6	.0	.0	.0	72.9
SE	5.8	7.1	1.2	.0	.0	.0	.0	14.0	2.1	2.7	.8	.0	1.0	.0	60.4
S	1.7	11.3	1.7	.0	.0	.0	.0	14.6	1.9	3.8	1.4	.0	1.9	.0	76.3
SW	4.4	.0	.0	.0	.0	.0	.0	4.4	8.8	4.4	4.4	.0	.0	.0	78.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	23.5	.0	.0	.0	.0	76.5
NW	1.6	3.1	.0	.0	.0	.0	.0	4.7	.0	14.7	.0	.0	.0	.0	80.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	16.7	.0	.0	.0	.0	.0	.0	16.7	.0	16.7	.0	.0	.0	.0	83.3
TOT PCT	4.5	7.8	.8	.0	.0	.0	.0	13.1	2.3	3.8	1.0	.0	1.4	.0	79.2
TOT OBS:	735														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.5	6.3	1.3	.0	.0	.0	.0	10.1	3.8	.0	1.3	.0	1.9	.0	82.9
06009	5.6	7.1	1.0	.0	.0	.0	.0	13.8	2.0	2.0	1.0	.0	2.0	.0	80.1
12015	6.3	10.9	.6	.0	.0	.0	.0	17.7	1.7	8.0	1.1	.0	1.1	.0	72.0
18021	3.5	6.5	.4	.0	.0	.0	.0	10.4	2.2	4.3	.4	.0	.4	.0	82.2
TOT PCT	4.5	7.6	.8	.0	.0	.0	.0	12.9	2.4	3.7	.9	.0	1.3	.0	79.4
TOT OBS:	759														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.9	8.6	5.4	.4	.1	.0		15.4	10.4		13.0	18.2	17.0	13.9	9.1	16.8	15.9	16.1
NE	1.0	10.9	3.5	.5	.0	*		16.0	9.1		9.6	16.3	17.9	21.1	17.5	18.3	14.2	11.6
E	1.5	11.1	6.8	2.2	.3	.1		21.9	11.7		23.4	19.4	18.5	25.2	22.6	23.5	22.0	21.9
SE	1.4	7.9	11.0	3.9	.2	.1		24.4	14.1		18.0	25.0	27.4	23.7	28.8	23.0	25.6	21.0
S	.8	4.1	5.8	1.6	.2	.1		12.6	13.6		17.7	10.7	14.8	12.4	11.5	10.2	11.0	14.7
SW	.1	1.1	1.2	.1	.4	.0		2.9	15.0		5.5	3.9	1.5	.8	6.7	1.3	2.0	4.5
W	*	.7	.2	.1	.0	.0		1.1	10.1		.0	.0	.6	.0	.0	2.3	1.7	3.1
NW	.4	2.1	1.7	.2	.0	.0		4.4	10.2		10.7	2.7	1.8	2.3	3.6	3.9	5.4	6.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0		2.1	3.9	.6	.8	.0	.7	2.0	.9
TOT OBS	86	531	405	102	12	3	1139		11.7		96	129	169	123	104	152	244	112
TOT PCT	7.6	46.6	35.6	9.0	1.1	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	06	12	18	21
N	3.5	9.9	1.8	.2	.0			15.4	10.4		16.0	15.6	13.7	15.9	
NE	5.3	9.6	1.1	.0	*			16.0	9.1		13.4	19.3	18.0	13.4	
E	6.0	11.2	3.9	.7	.2			21.9	11.7		21.1	21.4	23.1	22.0	
SE	4.8	9.7	9.2	.7	.1			24.4	14.1		22.0	25.7	25.4	24.2	
S	2.7	5.6	3.6	.6	.1			12.6	13.6		13.7	13.7	10.7	12.1	
SW	.7	1.3	.5	.1	.3			2.9	15.0		4.6	1.2	3.5	2.8	
W	.4	.5	.2	.0	.0			1.1	10.1		.0	.3	1.4	2.2	
NW	1.1	2.8	.4	.1	.0			4.4	10.2		6.1	2.0	3.8	5.7	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	1.4							1.4	.0		3.1	.7	.4	1.7	
TOT OBS	293	575	236	28	7	1139			11.7		225	302	256	356	
TOT PCT	25.7	50.5	20.7	2.5	.6			100.0			100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	3.1	8.9	40.0	36.4	10.2	1.3	.0	11.7	100.0	225
06009	.7	2.6	48.0	36.8	10.3	1.7	.0	12.5	100.0	302
12015	.4	6.3	47.7	34.8	9.4	1.2	.4	11.9	100.0	256
18021	1.7	7.3	48.9	34.6	6.7	.3	.6	11.0	100.0	356
TOT	16	70	331	405	102	12	3	11.7		1139
PCT	1.4	6.1	46.6	35.6	9.0	1.1	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.6	2.3	1.4	.7		2.4
NE	5.2	2.8	4.0	1.4		3.8
E	5.9	3.7	5.4	10.3		5.3
SE	6.1	6.9	7.7	4.9		4.6
S	3.0	4.0	3.6	2.3		4.5
SW	.6	.6	2.0	1.7		5.8
W	.0	.0	.2	1.0		6.0
NW	1.6	1.3	1.3	1.0		4.2
VAR	.0	.0	.0	.6		.0
CALM	.3	.6	.0	.6		4.6
TOT OBS	104	78	91	81	354	4.4
TOT PCT	29.4	22.0	25.7	22.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.3	.0	.0	.6	.0	.0	.0	10.2	
NE	.0	.0	.1	.1	2.1	.3	.3	.0	.0	.0	10.5	
E	.3	.0	1.6	3.3	5.0	1.5	.0	.0	.0	.0	13.6	
SE	.0	.0	.0	2.8	5.3	2.5	.0	.0	.0	.0	14.8	
S	.0	.0	.0	2.8	1.7	.0	.3	.3	.0	.0	7.8	
SW	.0	.0	.3	.6	.8	.6	.3	.0	.0	.0	2.3	
W	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	
NW	.0	.3	.0	.0	.8	.6	.2	.0	.0	.0	3.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	1.1	
TOT OBS	1	1	7	35	57	20	6	1	0	0	225	354
TOT PCT	.3	.3	2.0	9.9	16.1	5.6	1.7	.3	.0	.3	63.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0
>6500	.3	.3	.3	.3	.3	.3	.3	.3
>5000	.5	.5	.5	.5	.5	.5	.5	.5
>3500	2.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5
>2000	7.1	8.5	8.5	8.5	8.5	8.5	8.5	8.5
>1000	18.9	23.0	24.0	24.0	24.3	24.3	24.3	24.3
>600	23.0	30.3	33.6	33.9	34.2	34.2	34.2	34.2
>300	23.2	30.6	34.2	35.8	36.1	36.1	36.1	36.1
>150	23.2	30.9	34.4	36.1	36.3	36.3	36.3	36.3
>0	23.2	31.1	34.7	36.3	36.6	36.6	36.6	36.6
TOTAL	85	114	127	133	134	134	134	134

TOTAL NUMBER OF OBS: 366

PCT FREQ NH <5/8: 63.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
9.6	17.2	14.5	12.8	8.8	5.9	8.1	4.7	18.4	.0	407

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	.4	
	NO PCP	.3	.0	.1	.3	.1	.0	.0	.0	.0	.0	.8	
	TOT %	.4	.1	.1	.3	.1	.0	.0	.0	.0	.1	1.2	
1<2	PCP	.0	.3	.8	.0	.0	.0	.0	.0	.0	.0	.8	
	NO PCP	.3	.3	.0	.1	.1	.0	.0	.0	.0	.0	.8	
	TOT %	.3	.3	.8	.1	.1	.0	.0	.0	.0	.0	1.6	
2<5	PCP	.0	.0	.7	.5	.5	.0	.0	.0	.0	.0	1.6	
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.8	.5	.5	.0	.0	.0	.0	.0	1.8	
5<10	PCP	1.1	1.0	2.5	2.5	1.4	.1	.0	.2	.0	.0	8.8	
	NO PCP	5.7	6.6	6.8	10.5	6.3	1.0	.2	1.5	.0	.0	38.6	
	TOT %	6.8	7.6	9.3	13.0	7.6	1.2	.2	1.7	.0	.0	47.5	
10+	PCP	.0	.1	.3	.7	.2	.0	.0	.0	.0	.0	1.4	
	NO PCP	6.6	6.6	10.1	11.7	5.5	1.9	.4	2.7	.0	.7	46.4	
	TOT %	6.6	6.9	10.4	12.4	5.7	1.9	.4	2.7	.0	.7	47.8	
TOT OBS													735
TOT PCT		14.1	15.0	21.5	26.4	14.2	3.1	.6	4.4	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.4	
	11-21	.1	.0	.0	.2	.1	.0	.0	.0	.0	.0	.5	
	22+	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.4	.1	.1	.2	.1	.0	.0	.0	.0	.1	1.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.2	.0	.0	.1	.0	.0	.0	.0	.0	.3	
	11-21	.1	.0	.1	.2	.0	.0	.0	.0	.0	.0	.4	
	22+	.1	.1	.8	.0	.0	.0	.0	.0	.0	.0	1.0	
	TOT %	.3	.3	.9	.2	.1	.0	.0	.0	.0	.0	1.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.7	.4	.5	.0	.0	.0	.0	.0	1.6	
	TOT %	.0	.0	.7	.4	.5	.0	.0	.0	.0	.0	1.7	
5<10	0-3	.1	.8	.8	1.2	.6	.1	.1	.2	.0	.0	3.8	
	4-10	3.5	4.8	5.1	4.0	3.0	.5	.1	.9	.0	.0	21.8	
	11-21	2.5	1.6	2.9	4.7	2.7	.4	.1	.4	.0	.0	15.3	
	22+	.4	.2	1.0	2.3	.7	.1	.0	.1	.0	.0	4.7	
	TOT %	6.4	7.4	9.8	12.2	7.0	1.0	.3	1.6	.0	.0	45.6	
10+	0-3	.5	.3	.9	.1	.1	.1	.0	.1	.0	1.1	3.4	
	4-10	3.6	5.4	5.6	3.6	1.4	.5	.4	1.0	.0	.0	21.3	
	11-21	3.0	1.9	3.9	7.0	3.2	.9	.2	1.5	.0	.0	21.5	
	22+	.0	.8	.5	1.5	.7	.4	.0	.0	.0	.0	3.2	
	TOT %	7.1	7.7	11.0	12.2	5.4	2.0	.3	2.7	.0	1.1	49.6	
TOT OBS													822
TOT PCT		14.2	15.5	22.5	25.2	13.2	3.0	.8	4.2	.0	1.2	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	1.9	12.5	15.4	6.7	1.9	.0	.0	.0	38.5	61.5	104
06009	1.2	.0	1.2	4.8	20.5	2.4	1.2	1.2	.0	.0	32.5	67.5	83
12015	.0	.0	3.0	12.0	12.0	8.0	3.0	.0	.0	.0	38.0	62.0	100
18021	.0	1.0	1.0	6.8	12.6	4.9	1.0	.0	.0	1.0	28.2	71.8	103
TOT	1	1	7	36	58	22	7	1	0	1	134	256	390
PCT	.3	.3	1.8	9.2	14.9	5.6	1.8	.3	.0	.3	34.4	65.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.2	1.7	2.3	36.4	58.4	173
06009	.5	1.4	2.3	.9	52.8	42.1	216
12015	.0	1.0	2.6	2.0	37.8	56.6	196
18021	.0	.8	.8	1.5	51.7	45.2	201
TOT	1	9	15	14	386	421	846
PCT	.1	1.1	1.8	1.7	45.6	49.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	2.0	16.2	24.2	59.6	99
06009	1.3	3.9	10.4	24.7	64.9	77
12015	.0	3.2	17.0	23.4	59.6	94
18021	.0	2.1	10.4	19.8	69.8	96
TOT	1	10	50	84	232	366
PCT	.3	2.7	13.7	23.0	63.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.2	.0	.6	.2	.0	.0	5	1.0
80/84	.0	.0	.0	1.3	2.5	7.1	2.3	.2	70	13.4
75/79	.0	.0	.2	2.1	8.1	27.1	18.0	10.2	342	65.6
70/74	.0	.0	.0	.6	9.0	6.3	3.8	2.7	96	18.4
65/69	.0	.0	.0	.2	.2	.8	.4	.0	8	1.5
TOTAL	0	0	2	22	85	216	128	68	521	100.0
PCT	.0	.0	.4	4.2	16.3	41.5	24.6	13.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.4	.2	.1	.1	.2	.0	.0	.0	.0	.0
2.7	2.3	3.1	2.4	1.0	.8	.0	1.1	.0	.2
9.8	13.0	17.0	14.3	6.0	1.8	.4	2.4	.0	.6
1.3	1.2	2.4	7.1	5.3	.7	.0	.2	.0	.2
.0	.0	.2	.2	.9	.0	.2	.0	.0	.0
14.3	16.7	22.7	24.3	13.4	3.3	.6	3.7	.0	1.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	86	85	83	78	73	71	70	77.8	214
06009	87	84	82	77	73	69	68	77.3	299
12015	89	81	79	76	72	68	65	75.9	297
18021	87	82	80	76	72	69	67	75.9	359
TOT	89	84	81	77	72	69	65	76.6	1129

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	7.8	20.7	42.2	20.7	8.6	75	116
06009	.0	4.5	18.8	44.4	24.1	8.3	76	133
12015	.0	3.8	12.9	41.7	24.2	17.4	79	132
18021	.0	3.1	13.2	37.7	27.7	18.2	79	159
TOT	0	25	87	223	132	73	77	540

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.0	.5	.5	6	.0	1.0
6	.0	.0	.0	.0	.5	.0	3	.0	.5
5	.0	.0	.0	.3	.7	.2	7	.0	1.2
4	.0	.0	.8	1.0	.8	.0	16	.0	2.7
3	.0	.0	.2	1.9	1.5	.0	21	.3	3.2
2	.0	.0	1.2	4.6	.8	.0	39	.0	6.6
1	.0	.0	2.4	9.8	1.2	.2	80	.0	13.6
0	.0	.0	5.3	10.0	.3	.0	92	.0	15.6
-1	.0	.5	7.8	7.3	.3	.0	94	.2	15.8
-2	.3	.7	10.3	4.7	.3	.0	97	.0	16.4
-3	.2	.5	6.3	2.2	.0	.0	54	.3	8.8
-4	.0	.7	3.1	2.0	.2	.0	33	.2	5.8
-5	.5	.8	2.9	.7	.0	.0	29	.0	4.9
-6	.0	.5	1.0	.0	.0	.0	9	.0	1.5
-7/-8	.0	.5	.5	.0	.0	.0	6	.0	1.0
-11/-13	.0	.2	.0	.0	.0	.0	1	.0	.2
TOTAL	6	26	246	263	43	6	390	6	584
PCT	1.0	4.4	41.7	44.6	7.3	1.0	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.2	.0	.0	.0	.0	1.2	.0	1.0	.0	.0	.0	.0	1.0
1-2	.3	2.7	.2	.0	.0	.0	3.2	.1	5.3	.9	.0	.0	.0	6.3
3-4	.3	1.5	1.4	.0	.0	.0	3.3	.0	3.3	2.2	.0	.0	.0	5.5
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	.8	.1	.0	.0	.8
7	.0	.3	.6	.0	.0	.0	.9	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	5.7	4.3	.0	.3	.0	10.9	.1	9.6	4.2	.1	.0	.1	14.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.6	1.4	.0	.0	.0	.0	2.0	.6	1.1	.0	.0	.0	.0	1.7
1-2	.2	5.5	1.1	.0	.0	.0	6.9	.0	3.3	1.3	.0	.0	.0	4.6
3-4	.3	4.0	3.0	2.1	.0	.0	9.5	.0	2.9	5.9	.0	.0	.0	8.7
5-6	.0	.3	1.9	.8	.0	.0	3.0	.0	.0	4.0	1.3	.0	.0	6.3
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	1.7	.9	.0	.0	2.6
8-9	.0	.0	.0	.0	.3	.0	.3	.0	.0	.6	1.0	.3	.0	1.9
10-11	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.3	.2	.5	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	11.2	6.3	5.0	.6	.2	24.5	.6	7.3	14.4	3.5	.3	.3	26.4

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.3	.0	.0	.0	.0	.5	.0	.6	.0	.0	.0	.0	.6
1-2	.0	1.4	1.2	.0	.0	.0	2.7	.0	1.2	1.5	.0	.0	.0	2.7
3-4	.0	1.2	3.5	.3	.0	.0	5.0	.0	.0	.6	.0	.0	.0	.6
5-6	.0	.0	1.8	.6	.0	.0	2.4	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.3	.0	.0	.0	.5	.0	.0	.0	.0	.3	.0	.3
8-9	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.0	.6	.0	.6
10-11	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	7.1	1.7	.0	.3	12.3	.0	1.8	2.5	.0	1.2	.0	5.5

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.3	.0	.0	.0	.0	.3	.0	.9	.0	.0	.0	.0	.9	
1-2	.0	.0	.0	.0	.0	.0	.0	.3	.8	.1	.0	.0	.0	1.2	
3-4	.0	.0	.2	.0	.0	.0	.2	.0	.5	1.4	.0	.0	.0	1.8	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.3	.2	.0	.0	.0	.5	.3	2.2	2.0	.0	.0	.0	4.5	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.9	6.8	.0	.0	.0	.0	10.7	
1-2	.9	20.5	6.2	.0	.0	.0	27.6	
3-4	.6	13.4	17.8	2.4	.0	.0	34.1	
5-6	.0	.3	11.6	2.7	.0	.0	14.5	
7	.0	.3	3.3	.9	.3	.0	4.7	
8-9	.0	.0	.9	1.8	1.2	.0	3.9	
10-11	.0	.0	.3	.6	.0	.6	1.5	
12	.0	.0	.0	.3	.3	.0	.6	
13-16	.0	.0	.0	1.2	.3	.0	1.5	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.3	.3	.6	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.3	41.2	40.1	10.1	2.4	.9	100.0	337

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	9.2	12.9	9.2	2.2	1.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	4
6-7	.0	1.9	7.3	11.3	8.4	2.2	1.6	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	124	6
8-9	.0	.0	3.0	4.9	2.2	1.9	1.1	1.1	2.7	.3	.0	.0	.5	.0	.0	.0	.0	.0	.0	65	8
10-11	.0	.8	.0	1.6	.3	.3	.0	.0	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	7
12-13	.0	.0	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	5
>13	.0	.0	.0	.3	.3	.0	.0	.8	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	8	13
INDEX	.8	.5	1.6	1.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	17	3
TOTAL	9	46	93	107	50	23	13	8	15	2	3	0	2	0	0	0	0	0	0	371	5
PCT	2.4	12.4	25.1	28.8	13.5	6.2	3.5	2.2	4.0	.5	.8	.0	.5	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1876-1972

FEBRUARY

AREA 0005 BRISBANE
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	12.3	3.0	2.4	.0	.0	.0	.0	17.8	2.4	3.6	.0	.0	.6	.0	.0	76.8
NE	3.2	3.2	.0	.0	.0	.0	.0	6.4	.0	1.3	.6	.0	.0	.0	.0	91.6
E	3.3	5.2	.7	.0	.0	.0	.0	9.3	1.9	1.1	1.1	.0	.7	.0	.0	86.2
SE	4.9	12.1	.5	.0	.0	.0	.0	17.6	3.4	.5	1.3	.0	.0	.0	.0	77.8
S	10.1	9.5	.8	.0	.0	.0	.0	20.3	5.1	1.6	2.0	.0	1.6	.0	.0	69.8
SW	5.7	36.4	.0	.0	.0	.0	.0	42.0	3.4	2.8	.0	.0	4.5	.0	.0	43.2
W	4.8	4.8	.0	.0	.0	.0	.0	9.5	16.7	23.8	.0	.0	.0	.0	.0	54.8
NW	5.0	8.6	.0	.0	.0	.0	.0	13.6	.0	4.3	.0	.0	1.4	.0	.0	82.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	.0	83.3
TOT PCT	6.2	8.6	.7	.0	.0	.0	.0	15.5	2.9	2.0	1.0	.1	.7	.0	.0	78.2
TOT OBS:	689															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
00003	1.3	6.7	1.3	.0	.0	.0	.0	9.4	2.0	.7	1.3	.0	.0	.0	.0	86.6
06009	6.5	8.6	.5	.0	.0	.0	.0	15.7	1.6	1.1	1.6	.5	.5	.0	.0	80.0
12015	7.7	6.5	.6	.0	.0	.0	.0	14.9	4.8	4.8	.6	.0	1.2	.0	.0	75.0
18021	8.8	11.8	.5	.0	.0	.0	.0	21.1	2.9	1.5	.5	.0	1.0	.0	.0	73.0
TOT PCT	6.4	8.6	.7	.0	.0	.0	.0	15.7	2.6	2.0	1.0	.1	.7	.0	.0	78.2
TOT OBS:	706															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.2	6.3	3.2	.0	.0	.0		10.7	8.9	11.1	17.3	7.0	6.6	8.6	13.0	12.2	8.5	
NE	1.5	8.1	2.6	.0	.0	.0		12.3	7.8	5.5	12.5	10.4	13.7	11.8	12.4	10.1	14.8	
E	1.0	13.1	6.7	.8	.0	.0		21.7	10.0	16.8	23.6	23.7	25.5	20.6	27.8	18.2	18.6	
SE	.8	7.5	15.9	4.4	.6	.5		29.7	15.6	31.8	17.8	32.4	30.2	27.5	30.3	33.7	27.5	
S	.3	3.9	6.6	3.8	1.3	.2		16.1	18.2	22.4	18.8	18.4	14.8	22.0	11.4	12.6	15.3	
SW	.1	.7	.9	.5	.1	.2		2.4	18.9	4.5	.5	1.3	.2	3.5	2.0	1.0	1.7	
W	.2	.5	.4	.1	.1	.0		1.3	13.3	1.1	1.4	.3	.0	.0	1.6	7.2	7.2	
NW	.3	2.4	1.3	.2	.0	.0		4.2	10.4	4.7	5.3	2.4	2.3	1.4	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.6				24	9	1052	1.6	12.7	2.1	2.9	.0	.9	1.9	.0	2.3	3.4	
TOT OBS	72	449	394	104	24	9	1052	100.0		95	104	168	111	108	127	221	118	
TOT PCT	6.8	42.7	37.5	9.9	2.3	.9				100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	3.5	6.4	.7	.0	.0		10.7	8.9	14.3	7.6	11.0	10.9	
NE	5.7	8.0	.6	.0	.0		12.3	7.8	9.2	15.3	12.1	11.7	
E	6.0	13.1	2.3	.3	.0		21.7	10.0	20.4	24.5	24.5	18.4	
SE	3.0	15.0	9.5	1.5	.6		29.7	15.6	24.5	31.5	29.0	31.6	
S	1.4	6.8	5.3	2.5	.3		16.1	18.2	20.5	16.1	16.3	13.5	
SW	.4	.9	.6	.2	.2		2.4	18.9	2.4	2.1	2.1	2.8	
W	.4	.5	.1	.1	.0		1.3	13.3	1.3	2.2	2.7	1.3	
NW	1.4	2.2	.5	.1	.0		4.2	10.4	5.0	2.3	1.5	7.2	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.6						1.6	12.7	2.3	.4	.9	2.7	
TOT OBS	246	937	207	50	12	1052	100.0		199	279	235	339	
TOT PCT	23.4	51.0	19.7	4.8	1.1				100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00003	2.5	5.5	38.2	41.7	8.0	3.5	.5	13.1	100.0	199
06009	.4	4.3	41.6	36.6	13.3	2.9	1.1	13.5	100.0	279
12015	.9	6.0	46.4	33.2	11.5	1.7	.4	12.4	100.0	235
18021	2.7	5.3	43.7	38.6	7.1	1.5	1.2	12.0	100.0	339
TOT	17	95	449	354	104	24	9	12.7		1052
PCT	1.6	5.2	42.7	37.5	9.9	2.3	.9	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.4	1.9	1.4	.9		3.4
NE	3.4	2.8	2.6	.1		3.3
E	5.0	4.9	6.9	3.4		4.6
SE	7.2	11.0	8.9	5.0		4.4
S	4.5	4.2	7.2	6.9		5.2
SW	.5	.7	.7	1.0		5.4
W	.8	.2	.0	.3		3.1
NW	.4	.9	1.2	.4		4.5
VAR	.0	.0	.0	.0		.0
CALM	.6	.0	.0	.0		3.7
TOT OBS	88	91	101	62	342	4.5
TOT PCT	25.7	26.6	29.5	18.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.2	.8	.8	.0	.0	.0	.0	5.7	
NE	.1	.0	.0	.4	.6	.4	.0	.0	.0	.0	7.5	
E	.2	.0	.0	1.9	2.9	.3	1.2	.0	.0	.0	13.7	
SE	.3	.0	.3	2.4	2.8	2.4	.4	.0	.0	.0	23.6	
S	.3	.0	.3	3.9	2.8	2.2	.3	.0	.0	.0	12.7	
SW	.0	.0	.3	1.0	.3	.1	.0	.0	.0	.0	1.3	
W	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	1.0	
NW	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	2.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	
TOT OBS	3	0	3	35	36	21	8	0	0	0	236	342
TOT PCT	.9	.0	.9	10.2	10.5	6.1	2.3	.0	.0	.0	69.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.0	.0	.0	.0	.0	.0	.0
= OR >5000	.0	.0	.0	.0	.0	.0	.0	.0
= OR >3500	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
= OR >2000	6.3	8.3	8.9	8.9	8.9	8.9	8.9	8.9
= OR >1000	14.9	19.0	19.5	19.5	19.5	19.5	19.5	19.5
= OR >600	21.0	27.3	29.3	29.6	29.6	29.6	29.6	29.6
= OR >300	21.3	27.9	30.2	30.5	30.5	30.5	30.5	30.5
= OR >150	21.3	27.9	30.2	30.5	30.5	30.5	30.5	30.5
= OR >0	21.6	28.2	30.5	31.0	31.0	31.0	31.3	31.3
TOTAL	75	98	106	108	108	108	109	109

TOTAL NUMBER OF OBS: 348

PCT FREQ NH <5/8: 68.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	4.3	17.3	17.0	15.2	13.7	6.1	7.1	5.6	13.2	394

PERIOD: (PRIMARY) 1913-1972
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.1	.1	.3	.1	.0	.0	.0	.0	.0	.6	
	NO PCP	.0	.1	.2	.4	.4	.0	.0	.0	.0	.0	1.0	
	TOT %	.0	.1	.3	.7	.5	.0	.0	.0	.0	.0	1.6	
1<2	PCP	.0	.0	.0	.3	.6	.0	.0	.0	.0	.0	.9	
	NO PCP	.1	.0	.1	.0	.3	.1	.1	.1	.0	.0	.9	
	TOT %	.1	.0	.1	.3	.9	.1	.1	.1	.0	.0	1.7	
2<5	PCP	.0	.0	.1	.3	.4	.0	.0	.1	.0	.0	1.0	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.4	.4	.0	.0	.1	.0	.0	1.2	
5<10	PCP	1.6	.7	1.2	2.9	1.9	1.2	.1	.5	.0	.0	10.0	
	NO PCP	6.0	4.5	6.8	7.3	4.9	.4	.4	2.8	.0	.1	33.2	
	TOT %	7.6	5.2	8.0	10.2	6.8	1.5	.6	3.2	.0	.1	43.3	
10+	PCP	.5	.0	.4	1.2	.5	.2	.0	.1	.0	.0	2.9	
	NO PCP	3.9	6.0	10.5	15.3	9.1	1.3	.8	1.6	.0	.7	49.2	
	TOT %	4.4	6.0	11.0	16.5	9.6	1.5	.8	1.6	.0	.7	52.1	
TOT OBS													
TOT PCT													
		12.0	11.3	19.5	26.1	18.4	3.2	1.5	5.1	.0	.9	100.0	689

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.3	.0	.0	.0	.0	.0	.0	.0	.4	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.5	.4	.0	.0	.0	.0	.0	.9	
	TOT %	.0	.1	.3	.6	.5	.0	.0	.0	.0	.0	1.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.1	.1	.1	.0	.0	.1	.0	.0	.5	
	11-21	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.1	.3	.0	.1	.0	.0	.0	.5	
	TOT %	.1	.0	.1	.3	.8	.1	.1	.1	.0	.0	1.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	4-10	.0	.0	.0	.1	.2	.0	.0	.0	.0	.0	.3	
	11-21	.0	.0	.1	.4	.2	.1	.0	.0	.0	.0	.8	
	22+	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.1	.5	.7	.1	.0	.1	.0	.0	1.5	
5<10	0-3	1.1	.5	.2	.0	.1	.0	.1	.2	.0	.1	2.3	
	4-10	3.8	2.9	4.5	2.5	1.3	.2	.0	1.2	.0	.0	16.3	
	11-21	2.4	1.7	3.2	5.0	1.8	.4	.3	1.2	.0	.0	16.1	
	22+	.0	.0	.2	2.2	3.0	.8	.1	.3	.0	.0	6.6	
	TOT %	7.3	5.0	8.1	9.6	6.2	1.4	.5	3.0	.0	.1	41.3	
10+	0-3	.2	.6	.6	.7	.1	.*	.2	.1	.0	1.1	3.6	
	4-10	3.3	5.2	6.8	4.0	2.5	.7	.5	1.3	.0	.0	24.3	
	11-21	1.3	1.3	3.4	9.8	3.8	.5	.1	.2	.0	.0	20.5	
	22+	.0	.0	.5	2.5	2.5	.2	.0	.0	.0	.0	5.7	
	TOT %	4.8	7.1	11.4	17.0	8.9	1.4	.8	1.6	.0	1.1	54.1	
TOT OBS													
TOT PCT													
		12.2	12.3	20.0	28.0	17.2	3.0	1.5	4.7	.0	1.2	100.0	753

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	12.0	9.0	6.0	1.0	.0	.0	.0	28.0	72.0	100
06009	2.2	.0	1.1	9.7	9.7	3.2	2.2	.0	.0	.0	28.0	72.0	93
12015	1.0	.0	.0	6.7	10.6	8.7	3.8	.0	.0	.0	30.8	69.2	104
18021	.0	.0	2.5	10.0	11.3	6.3	1.3	.0	.0	.0	31.3	68.6	80
TOT	3	0	3	36	38	23	8	0	0	0	111	266	377
PCT	.8	.0	.8	9.5	10.1	6.1	2.1	.0	.0	.0	29.4	70.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.3	.0	1.3	34.6	62.8	156
06009	.5	2.5	1.5	2.5	43.6	49.5	204
12015	.0	1.1	2.7	.5	32.4	63.2	185
18021	.0	.9	1.8	1.3	51.6	44.4	225
TOT	1	11	12	11	319	416	770
PCT	.1	1.4	1.6	1.4	41.4	54.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500D	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	11.8	17.2	71.0	93
06009	2.3	3.4	14.8	14.8	70.5	88
12015	1.0	1.0	9.1	22.2	68.7	99
18021	.0	2.9	14.7	22.1	63.2	68
TOT	3	6	43	66	239	348
PCT	.9	1.7	12.4	19.0	68.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.2	.0	.2	.2	3	.6
80/84	.0	.0	.0	.2	1.3	2.8	4.1	2.6	59	11.0
75/79	.0	.0	.0	.4	12.9	26.0	20.2	8.0	361	67.3
70/74	.0	.0	.0	.6	3.0	5.2	7.1	4.5	109	20.4
65/69	.0	.0	.0	.0	.0	.0	.0	.4	2	.4
60/64	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
TOTAL	0	0	0	6	93	182	169	85	535	100.0
PCT	.0	.0	.0	1.1	17.4	34.0	31.6	15.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.2	.2	.0	.0	.0	.0	.0	.2	.0	.0
80/84	3.9	2.1	2.7	1.0	.4	.0	.0	.8	.0	.0
75/79	7.4	6.8	15.9	18.4	10.5	1.5	.8	3.5	.0	.7
70/74	1.2	.4	2.3	7.5	5.9	1.5	.7	.5	.0	.4
65/69	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0
60/64	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
TOTAL	12.7	11.7	20.9	26.8	17.0	3.1	1.7	5.0	.0	1.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	87	86	82	78	73	72	72	77.9	198
06009	89	84	82	77	72	71	67	77.1	268
12015	81	80	80	76	71	67	65	75.7	234
18021	91	80	79	76	72	69	64	75.7	341
TOT	89	83	81	77	72	69	64	76.5	1041

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	2.6	17.2	44.0	24.1	12.1	77	116
06009	.0	.8	24.4	35.1	26.7	13.0	77	131
12015	.0	.7	17.8	27.4	39.3	14.8	80	135
18021	.0	.6	11.3	30.6	35.0	22.5	82	160
TOT	0	6	94	183	172	87	79	542

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PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1876-1972

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIFF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FDG	WD FDG
11/13	.0	.0	.0	.2	.0	.0	.0	1	.0	.2
9/10	.0	.0	.0	.2	.2	.0	.0	2	.0	.3
7/8	.0	.0	.0	.0	.0	.0	.2	1	.0	.2
6	.0	.0	.0	.2	.5	.3	.0	6	.0	1.0
5	.0	.0	.0	.7	.2	.0	.0	5	.0	.9
4	.0	.0	.3	1.4	.2	.2	.0	12	.0	2.1
3	.0	.0	1.0	1.7	1.4	.2	.0	25	.0	4.3
2	.0	.2	.9	2.6	1.7	.0	.0	31	.0	5.4
1	.0	.0	1.7	7.8	1.0	.0	.0	61	.3	10.2
0	.0	.2	3.1	8.2	.2	.0	.0	67	.2	11.5
-1	.0	.9	6.4	11.1	.2	.0	.0	107	.2	18.4
-2	.0	.2	6.8	7.1	.2	.0	.0	82	.0	14.2
-3	.0	1.4	10.1	2.3	.0	.0	.0	79	.2	13.5
-4	.0	.7	5.0	.9	.0	.0	.0	38	.2	6.4
-5	.0	1.0	5.3	.9	.0	.0	.0	30	.0	5.2
-6	.0	.9	1.0	.9	.0	.0	.0	16	.0	2.8
-7/-8	.0	.9	.2	.3	.0	.0	.0	8	.0	1.4
-9/-10	.0	.2	.2	.0	.0	.0	.0	2	.0	.3
-11/-13	.3	.2	.0	.0	.0	.0	.0	3	.0	.5
TOTAL	2	38	231	267	4	1	576	100.0	1.0	99.0
PCT	.3	6.6	40.1	46.4	5.7	.7	.2			

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.6	.0	.0	.0	.0	.6	.3	.7	1.0	.0	.0	.0	2.0
1-2	.0	2.9	.8	.0	.0	.0	3.7	.3	3.6	.8	.0	.0	.0	4.0
3-4	.0	1.5	1.9	.0	.0	.0	3.5	.0	3.1	.9	.0	.0	.0	3.8
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.4	.9	.0	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.0	3.1	.0	.0	.0	8.1	.7	7.7	2.9	.0	.0	.0	11.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	1.3	.0	.0	.0	.0	1.6	.7	1.9	.0	.0	.0	.0	2.5
1-2	.0	4.2	.0	.0	.0	.0	4.2	.0	1.9	1.7	.0	.0	.0	3.6
3-4	.0	4.4	4.3	.3	.0	.0	9.1	.3	1.0	9.3	.0	.0	.0	10.7
5-6	.0	1.2	1.6	.0	.0	.0	2.8	.0	.1	5.9	1.4	.0	.0	7.4
7	.0	.0	.8	.3	.0	.0	1.2	.0	.0	1.2	1.0	.0	.0	2.2
8-9	.0	.0	.7	.0	.0	.0	.7	.0	.0	.7	.3	.0	.0	1.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.7
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	11.0	7.5	.7	.0	.0	19.5	1.0	4.9	19.2	3.8	1.0	.0	29.9

PERIOD: (OVER-ALL) 1963-1972

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	1.7	.0	.0	.0	.0	2.0	.1	.3	.3	.0	.0	.0	.7	
1-2	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	
3-4	.0	2.1	3.5	.7	.0	.0	6.3	.0	1.1	.1	.0	.0	.0	1.2	
5-6	.0	.3	3.3	.0	.0	.0	3.6	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	1.3	1.7	.7	.0	3.6	.0	.0	.3	.0	.0	.0	.2	
8-9	.0	.0	.0	1.3	.9	.0	2.2	.0	.0	.0	.1	.1	.0	.1	
10-11	.0	.0	.0	.6	1.3	.0	1.9	.0	.0	.0	.0	.1	.0	.0	
12	.0	.0	.0	.0	.3	.0	.7	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	5.1	8.1	4.9	3.2	.0	21.6	.1	1.4	.8	.1	.2	.0	2.5	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.3	.0	.0	.0	.0	.5	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	.7	.0	.0	.0	.0	.7	.0	1.8	.1	.0	.0	.0	1.9	
3-4	.0	.3	.0	.0	.0	.0	.3	.0	1.0	.4	.0	.0	.0	1.4	
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	1.3	.3	.3	.0	.0	2.2	.0	3.0	.6	.0	.0	.0	3.6	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.7	7.0	1.3	.0	.0	.0	12.1	
1-2	.3	16.1	2.7	.0	.0	.0	19.1	
3-4	.3	14.4	20.1	1.0	.0	.0	35.9	
5-6	.0	2.0	12.4	1.3	.0	.0	15.8	
7	.0	.0	3.7	3.4	.7	.0	7.7	
8-9	.0	.0	1.3	1.7	1.0	.0	4.0	
10-11	.0	.0	.0	1.0	1.3	.0	2.3	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.3	.3	.7	.0	1.3	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.3	.3	.0	.7	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.4	39.6	41.9	9.7	4.4	.0	100.0	298

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	6.8	13.8	6.8	2.0	1.4	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	115	4
6-7	.0	.6	6.5	12.4	5.6	2.0	1.7	.6	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	108	6
8-9	.0	.3	2.0	4.0	4.8	3.4	1.7	.6	1.1	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	64	7
10-11	.0	.0	.3	1.1	1.1	1.4	2.5	.6	.8	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	30	10
12-13	.0	.0	.3	.0	.6	.0	2.3	.8	.8	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	19	12
>13	.0	.0	.0	.0	.6	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	11
INDET	.6	.3	1.4	.8	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	4
TOTAL	6	28	86	89	52	29	29	12	16	3	1	0	3	0	0	0	0	0	0	354	6
PCT	1.7	7.9	24.3	25.1	14.7	8.2	8.2	3.4	4.5	.8	.3	.0	.8	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA	
N	1.5	3.4	.0	.0	.0	.0	.0	4.9	.0	6.8	.0	.0	3.0	.0	85.2	
NE	5.3	6.2	.0	.0	.0	.0	.0	11.5	.0	2.2	1.2	.0	2.5	.0	82.7	
E	4.3	6.2	.7	.0	.0	.0	.0	11.2	.0	.3	.3	.0	.7	.0	87.5	
SE	3.7	9.3	.8	.0	.0	.0	.0	13.8	4.2	1.1	.4	.0	.7	.0	80.2	
S	5.9	10.4	3.2	.0	.0	.0	.0	19.5	2.1	.0	2.1	.0	.0	.0	76.3	
SW	13.8	2.1	4.3	.0	.0	.0	.0	20.2	.0	5.3	.0	.0	.0	.0	74.5	
W	4.2	.0	.0	.0	.0	.0	.0	4.2	.0	16.9	.0	.0	.0	.0	78.9	
NW	3.0	5.2	3.0	.0	.0	.0	.0	11.1	.0	5.9	.0	.0	.0	.0	83.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	10.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	.0	.0	.0	90.0	
TOT PCT TOT OBS:	4.5 778	7.3	1.2	.0	.0	.0	.0	13.0	1.8	2.1	.6	.0	.9	.0	81.7	

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
06003	5.5	6.7	.0	.0	.0	.0	.0	12.2	3.0	.0	.6	.0	.6	.0	83.5
06009	2.7	6.4	2.3	.0	.0	.0	.0	11.4	2.3	1.4	.9	.0	1.8	.0	82.2
12015	5.1	5.7	1.1	.0	.0	.0	.0	12.0	.6	4.6	.6	.0	.6	.0	82.3
18021	4.5	10.2	1.2	.0	.0	.0	.0	15.9	1.2	2.0	.8	.0	.4	.0	79.6
TOT PCT OBS:	4.4 803	7.5	1.2	.0	.0	.0	.0	13.1	1.7	2.0	.7	.0	.9	.0	81.7

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.5	4.4	3.1	.0	.0	.0		9.0	8.7		8.7	9.8	8.7	10.2	6.7	9.9	10.2	5.4
NE	.8	7.8	2.8	.3	.0	.0		11.7	8.7		5.4	12.7	13.2	13.5	16.4	12.3	9.9	11.2
E	1.2	9.2	6.9	1.4	.2	.0		18.9	11.4		15.8	11.1	18.3	24.1	22.4	18.2	18.8	22.8
SE	.7	9.1	16.8	5.8	.9	*		33.3	15.5		37.3	29.5	35.0	32.5	30.7	36.8	34.0	27.7
S	.2	3.3	6.7	2.9	.5	.1		13.6	16.6		15.4	16.4	18.1	12.4	15.2	12.3	10.5	9.4
SW	.2	1.9	1.5	.2	.0	*		3.9	11.9		5.6	6.1	2.6	1.8	2.1	3.3	4.1	6.9
W	.3	1.2	1.0	.3	.0	.0		2.8	11.3		3.6	2.9	.2	1.1	1.7	3.0	3.7	7.4
NW	.4	3.1	1.1	.1	.0	.0		4.7	8.5		7.4	5.7	1.9	2.9	3.8	3.6	5.3	9.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.1							2.1	.0		.9	5.7	1.9	1.5	1.0	.7	3.4	.0
TOT OBS	91	484	482	132	19	2	1210		12.5		112	122	209	137	103	151	262	112
TOT PCT	7.5	40.0	39.8	10.9	1.6	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21
N	3.7	4.5	.8	.0	.0		9.0	8.7	9.3	9.3	8.6	8.8
NE	5.2	5.5	1.0	*	.0		11.7	8.7	9.2	13.3	14.0	10.3
E	4.8	10.1	3.4	.4	.1		18.9	11.4	13.4	20.6	19.9	20.0
SE	3.1	16.5	11.2	2.4	.1		33.3	15.5	33.2	34.0	34.3	32.1
S	1.3	5.9	4.8	1.5	.1		13.6	16.6	15.9	15.8	13.5	10.2
SW	1.3	1.5	.8	.2	*		3.9	11.9	5.9	2.3	2.8	4.9
W	.8	1.4	.4	.2	.0		2.8	11.3	3.2	.6	2.4	4.8
NW	1.9	2.7	.2	.0	.0		4.7	8.5	6.5	2.3	3.7	6.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	3.4	1.7	.8	2.4
TOT OBS	292	583	273	58	4	1210		12.5	234	346	256	374
TOT PCT	24.1	48.2	22.6	4.8	.3		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	3.4	8.1	33.3	39.7	13.7	1.3	.4	12.9	100.0	234
06009	1.7	5.8	42.5	38.4	8.7	2.6	.3	12.5	100.0	346
12015	.8	2.3	42.6	42.6	10.9	.8	.0	12.7	100.0	256
18021	2.4	5.6	40.1	39.3	11.2	1.3	.0	12.2	100.0	374
TOT	25	66	484	482	132	19	2	12.5		1210
PCT	2.1	5.5	40.0	39.8	10.9	1.6	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	4.1	1.6	1.9	.8		3.0
NE	3.6	1.7	2.7	.9		3.8
E	6.2	3.3	7.9	2.0		4.1
SE	8.5	10.8	10.1	5.9		4.5
S	4.8	2.4	5.8	3.1		4.7
SW	.6	.4	1.3	.0		5.2
W	1.9	.0	.2	.4		2.6
NW	2.0	1.3	.9	.7		3.4
VAR	.0	.0	.0	.0		.0
LALM	1.0	.5	.2	.9		3.0
TOT OBS	132	89	123	61	405	4.2
TOT PCT	32.6	22.0	30.4	15.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT. NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.4	.6	.2	.0	.0	.0	.0	.0	7.0
NE	.0	.0	.0	1.0	.6	.2	.2	.0	.0	.0	.0	6.9
E	.0	.0	.0	2.2	1.5	1.5	.5	.0	.0	.0	.0	13.1
SE	.2	.0	.5	3.2	6.0	2.1	.3	.2	.0	.1	.1	22.6
S	.7	.0	.5	1.5	2.2	1.9	.9	.2	.0	.4	.3	8.3
SW	.0	.0	.0	.2	.6	.7	.3	.0	.0	.0	.0	1.3
W	.0	.0	.0	.2	.2	.0	.0	.0	.0	.2	.1	1.9
NW	.0	.0	.0	.3	.4	.5	.0	.0	.0	.1	.3	3.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
LALM	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	1.7
TOT OBS	2	0	4	38	49	29	9	2	0	3	269	405
TOT PCT	.5	.0	1.0	9.4	12.1	7.2	2.2	.5	.0	.7	66.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.7	.7	.7	.7	.7	.7	.7	.7
>5000	.7	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>3500	2.2	3.4	3.4	3.4	3.4	3.4	3.4	3.4
>2000	8.3	10.8	10.8	10.8	10.8	10.8	10.8	10.8
>1000	16.4	22.1	22.8	22.8	22.8	22.8	22.8	22.8
>600	22.1	30.6	32.1	32.1	32.1	32.1	32.1	32.1
>300	22.5	31.4	32.8	33.1	33.1	33.1	33.1	33.1
>150	22.5	31.4	32.8	33.1	33.1	33.1	33.1	33.1
>0	22.8	31.6	33.3	33.6	33.6	33.6	33.6	33.6
TOTAL	93	129	136	137	137	137	137	137

TOTAL NUMBER OF OBS: 408

PCT FREQ NH <5/8: 66.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
7.8	14.4	16.7	15.8	10.7	7.1	7.6	7.3	12.2	.4	450

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.3	.3
	NO PCP	.0	.2	.1	.1	.3	.0	.0	.0	.0	.0	.8	.8
	TOT %	.0	.3	.1	.1	.4	.0	.0	.0	.0	.0	1.0	1.0
1<2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	NO PCP	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.4	.4
	TOT %	.0	.3	.1	.0	.1	.0	.0	.0	.0	.0	.5	.5
2<5	PCP	.0	.2	.3	.1	.2	.0	.0	.0	.0	.1	.9	.9
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.2	.3	.2	.2	.0	.0	.0	.0	.1	1.0	1.0
5<10	PCP	.3	.8	1.5	3.5	1.9	.5	.1	.3	.0	.0	8.9	8.9
	NO PCP	3.4	4.0	7.3	14.0	4.8	1.0	1.0	1.3	.0	.1	36.9	36.9
	TOT %	3.7	4.8	8.7	17.5	6.7	1.4	1.1	1.6	.0	.1	45.8	45.8
10+	PCP	.1	.1	.4	1.4	.5	.1	.0	.2	.0	.0	2.8	2.8
	NO PCP	4.6	4.7	9.9	16.3	7.1	1.4	1.2	2.6	.0	1.0	48.8	48.8
	TOT %	4.7	4.9	10.3	17.7	7.6	1.6	1.2	2.7	.0	1.0	51.7	51.7
TOT OBS													778
TOT PCT		8.5	10.4	19.6	35.5	15.2	3.0	2.3	4.3	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	.3
	TOT %	.0	.3	.1	.1	.4	.0	.0	.0	.0	.0	.9	.9
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.3	.3
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.1	.0	.1	.0	.0	.0	.0	.0	.5	.5
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.1	.0	.2	.0	.0	.0	.0	.0	.3	.3
	22+	.0	.1	.2	.2	.1	.0	.0	.0	.0	.1	.6	.6
	TOT %	.0	.1	.3	.3	.3	.0	.0	.0	.0	.1	1.2	1.2
5<10	0-3	.8	.2	.3	.3	.0	.1	.1	.1	.0	.1	2.0	2.0
	4-10	1.7	4.0	4.4	5.1	1.1	.8	.4	1.2	.0	.0	18.7	18.7
	11-21	.9	.3	3.1	8.7	3.4	.3	.5	.2	.0	.0	17.6	17.6
	22+	.0	.0	.2	2.2	1.7	.1	.1	.0	.0	.0	4.3	4.3
	TOT %	3.4	4.5	8.1	16.3	6.2	1.3	1.1	1.5	.0	.1	42.6	42.6
10+	0-3	.5	.1	.5	.4	.3	.1	.2	.2	.0	1.5	3.8	3.8
	4-10	2.3	3.0	4.7	4.7	2.3	.7	.9	1.7	.0	.0	20.3	20.3
	11-21	2.0	1.7	4.4	10.0	3.6	.7	.3	1.0	.0	.0	23.7	23.7
	22+	.0	.1	.6	4.5	1.5	.1	.0	.1	.0	.0	7.0	7.0
	TOT %	4.8	4.8	10.2	19.6	7.8	1.7	1.3	3.1	.0	1.5	54.8	54.8
TOT OBS													859
TOT PCT		8.2	10.0	18.9	36.4	14.8	3.0	2.4	4.5	.0	1.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.0	1.8	8.0	9.7	9.7	2.7	.0	.0	.9	32.7	67.3	113
06009	.0	.0	2.0	3.9	14.7	6.9	2.0	2.0	.0	2.0	33.3	66.7	102
12015	1.0	.0	.0	5.8	10.7	4.9	1.9	.0	.0	.0	24.3	75.7	103
18021	.9	.0	.0	16.8	10.6	6.2	1.8	.0	.0	.0	36.3	63.7	113
TOT	2	0	4	38	49	30	9	2	0	3	137	294	431
PCT	.5	.0	.9	8.8	11.4	7.0	2.1	.5	.0	.7	31.8	68.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	< 1/2	1/2 < 1	1 < 2	2 < 5	5 < 10	10+	TOTAL OBS
00003	.0	1.1	.0	.6	32.4	65.9	176
06009	.0	1.7	.8	.8	49.6	47.1	242
12015	.0	1.0	.5	2.1	37.1	59.3	194
18021	.0	.7	.4	1.1	48.9	48.9	272
TOT	0	10	4	10	362	478	884
PCT	.0	1.1	.5	1.1	43.2	54.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOURL (GMT)	< 150 < 5000	< 600 < 1	< 1000 < 5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	1.9	11.3	23.6	65.1	106
06009	.0	2.0	7.1	27.6	63.3	98
12015	1.0	1.0	7.1	18.4	74.5	98
18021	.9	.9	19.8	18.9	61.3	106
TOT	2	6	47	90	271	408
PCT	.5	1.5	11.5	22.1	66.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
80/84	.0	.0	.0	.3	3.1	3.1	1.6	.5	90	8.7
75/79	.0	.0	.0	2.4	12.0	27.4	13.0	5.4	347	60.1
70/74	.0	.0	.0	1.7	6.9	4.0	7.5	4.0	168	29.1
65/69	.0	.0	.0	.0	.0	.2	.5	1.2	11	1.9
TOTAL	0	0	0	26	128	229	130	64	577	100.0
PCT	.0	.0	.0	4.5	22.2	39.7	22.5	11.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
80/84	1.7	.9	1.6	2.1	1.1	.2	.0	1.0	.0	.0
75/79	5.3	7.3	13.6	20.4	6.7	1.2	1.4	2.8	.0	1.2
70/74	1.4	2.5	4.4	10.1	6.5	1.8	.9	1.3	.0	.2
65/69	.0	.1	.3	.7	.3	.3	.3	.0	.0	.0
TOTAL	8.7	11.0	20.0	33.3	14.6	3.5	2.6	5.1	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	83	82	82	77	72	68	65	76.9	229
06009	87	84	81	76	71	67	63	76.3	340
12015	82	80	79	75	71	67	64	75.1	258
18021	82	80	79	75	70	67	66	74.7	374
TOT	87	82	80	76	71	67	63	75.6	1201

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	9.6	32.0	29.6	23.2	5.6	73	125		
06009	.0	4.2	22.5	45.1	16.2	12.0	75	142		
12015	.0	3.6	17.9	41.4	25.7	11.4	77	140		
18021	.0	2.7	17.6	40.4	26.1	13.3	78	188		
TOT	0	28	130	235	137	65	76	595		

PERIOD: (PRIMARY) 1913-1973
(OVER-ALL) 1877-1973

MARCH

AREA 0005 BRISBANE
26.05 153.5E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	NO FOG
17/19	.0	.0	.0	.1	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.1	.0	1	.0	.1
9/10	.0	.0	.1	.1	.1	.0	3	.1	.3
7/8	.0	.0	.1	.3	.0	.0	3	.0	.4
6	.0	.0	.3	.1	.0	.1	4	.0	.6
5	.0	.0	.3	.9	.3	.1	11	.0	1.6
4	.0	.0	.1	.6	.4	.0	8	.0	1.7
3	.0	.1	.7	.6	.9	.0	16	.1	2.2
2	.0	.3	.6	1.9	1.2	.0	28	.1	4.0
1	.0	.4	1.9	4.8	.7	.0	33	.1	7.7
0	.0	.6	5.9	7.7	.3	.0	98	.0	14.6
-1	.1	.7	10.1	4.5	.1	.0	105	.0	19.6
-2	.0	.1	11.7	9.2	.0	.0	115	.1	16.9
-3	.0	.9	9.4	1.9	.0	.0	82	.0	12.2
-4	.0	1.6	5.5	.9	.0	.0	54	.0	8.0
-5	.0	1.6	3.3	.3	.0	.0	35	.1	5.1
-6	.0	1.2	2.4	.3	.0	.0	26	.0	3.9
-7/-8	.1	1.5	1.8	.1	.0	.0	24	.0	3.6
-9/-10	.0	.3	.6	.0	.0	.0	6	.0	.9
TOTAL	2	64	370	205	30	2	673	.9	667
PCT	.3	9.5	55.0	30.5	4.5	.3	100.0	.9	99.1

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.3	.0	.0	.0	.0	.5	.1	1.3	.0	.0	.0	.0	1.4
1-2	.6	1.9	.5	.0	.0	.0	3.0	.0	3.5	1.6	.0	.0	.0	5.1
3-4	.0	1.5	1.3	.0	.0	.0	2.8	.0	1.3	1.0	.0	.0	.0	2.3
5-6	.0	.3	1.3	.0	.0	.0	1.6	.0	.0	.8	.0	.0	.0	.7
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.8	4.1	3.4	.0	.0	.0	8.3	.1	6.3	3.9	.0	.0	.0	10.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.0	.3	.0	.0	.0	1.3	.3	1.0	.0	.0	.0	.0	1.3
1-2	.0	3.8	1.4	.0	.0	.0	5.2	.3	2.6	2.2	.0	.0	.0	5.1
3-4	.0	2.5	2.4	.2	.0	.0	5.2	.3	1.4	5.2	2.7	.0	.0	9.6
5-6	.0	.0	2.8	.3	.0	.0	3.1	.0	.4	7.4	3.7	.6	.0	12.1
7	.0	.0	1.1	.0	.0	.0	1.1	.0	.0	1.8	2.1	.9	.0	4.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	1.6	.0	.0	2.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.3	.0	1.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.6
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.2	8.0	.5	.0	.0	15.8	.9	9.4	17.1	11.6	1.8	.0	36.7

PERIOD: (OVER-ALL) 1963-1973

MARCH

AREA 0005 BRISBANE
26.8S 153.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S								SW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.5	.0	.0	.0	.0	.5	.0	.6	.0	.0	.0	.0	.6	
1-2	.0	1.7	.7	.0	.0	.0	2.4	.0	.7	.0	.0	.0	.0	.7	
3-4	.0	1.3	1.3	.0	.0	.0	2.7	.0	.4	1.3	.4	.0	.0	2.1	
5-6	.0	.2	2.6	.7	.3	.0	3.8	.0	.1	.1	.0	.0	.0	.1	
7	.0	.0	1.9	1.2	.0	.0	3.1	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.3	.7	1.6	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.1	7.3	4.4	.9	.0	16.7	.0	1.8	1.5	.4	.0	.0	3.7	

W								NW								TOTAL PCT
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.3	.0	.0	.0	.0	.3	.0	1.2	.0	.0	.0	.0	.0	1.2	
1-2	.0	.7	.0	.0	.0	.0	.7	.3	1.0	.0	.0	.0	.0	.0	1.3	
3-4	.0	.3	.0	.2	.0	.0	.5	.0	.1	1.3	.0	.0	.0	.0	1.5	
5-6	.0	.2	.5	.0	.0	.0	.7	.0	.0	.8	.0	.0	.0	.0	.8	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.5	.5	.2	.0	.0	2.3	.3	2.4	2.1	.0	.0	.0	4.8	98.5	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	6.2	.3	.0	.0	.0	9.1	
1-2	1.2	15.8	6.5	.0	.0	.0	23.5	
3-4	.3	8.8	13.8	3.5	.0	.0	26.4	
5-6	.0	1.2	16.1	4.7	.9	.0	22.9	
7	.0	.3	5.9	3.2	.9	.0	10.3	
8-9	.0	.3	1.2	3.2	.0	.0	4.7	
10-11	.0	.0	.0	1.2	.3	.0	1.5	
12	.0	.0	.0	.9	.0	.0	.9	
13-16	.0	.0	.0	.0	.3	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.3	.0	.0	.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.1	32.6	43.7	17.0	2.6	.0	100.0	341

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	9.0	11.9	5.2	2.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123	3
6-7	.0	.0	5.0	11.7	4.2	2.7	1.0	.0	1.7	.0	.2	.5	.2	.0	.0	.0	.0	.0	.0	110	7
8-9	.0	.2	.7	4.7	5.7	5.5	2.2	.7	1.2	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	88	8
10-11	.0	.5	1.2	2.5	1.5	1.0	1.2	.7	.2	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	38	7
12-13	.0	.0	.0	.2	.2	1.0	.0	1.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	10
>13	.0	.0	.0	.5	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
INDET	.7	.2	1.5	1.5	.7	.0	.5	.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	6
TOTAL	10	40	82	106	60	43	20	15	15	4	3	2	2	.0	.0	.0	.0	.0	.0	402	6
PCT	2.5	10.0	20.4	26.4	14.9	10.7	5.0	3.7	3.7	1.0	.7	.5	.5	.0	.0	.0	.0	.0	.0	100.0	

APRIL

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1860-1972AREA 0005 BRISBANE
26.85 153.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.6	4.8	.0	.0	.0	.0	.0	6.5	.0	3.2	.0	.0	1.6	.0	88.7
NE	9.2	10.0	1.5	.0	.0	.0	.0	20.8	.0	1.5	.0	.0	.0	.0	77.7
E	5.5	12.9	2.1	.0	.0	.0	.0	20.4	1.4	1.0	.0	.0	.7	.0	76.8
SE	5.3	8.7	1.5	.0	.0	.0	.0	15.5	5.3	.2	.0	.0	.0	.0	79.2
S	6.3	6.8	1.3	.0	.0	.0	.0	14.5	2.7	.0	.0	.0	1.3	.0	81.5
SW	5.1	10.7	.0	.0	.0	.0	.0	15.9	4.2	1.9	.0	.0	.0	.0	79.9
W	.0	3.6	.0	.0	.0	.0	.0	3.6	.0	5.8	.0	.0	2.9	.0	87.8
NW	.0	2.8	.0	.0	.0	.0	.0	2.8	.0	.0	.0	.0	2.8	.0	94.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT TOT OBS:	5.0	8.5	1.2	.0	.0	.0	.0	14.7	2.5	1.1	.0	.0	.8	.0	81.2

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.8	7.1	1.4	.0	.0	.0	.0	11.3	7.1	.0	.0	.0	2.1	.0	79.4
06009	7.1	9.0	.9	.0	.0	.0	.0	17.0	2.4	1.9	.0	.0	.0	.0	79.2
12015	4.5	5.1	1.1	.0	.0	.0	.0	10.7	.0	.6	.0	.0	.6	.0	88.1
18021	4.7	11.0	1.3	.0	.0	.0	.0	16.9	1.7	1.3	.0	.0	.8	.0	79.7
TOT PCT TOT OBS:	5.0 766	8.4	1.2	.0	.0	.0	.0	14.5	2.5	1.0	.0	.0	.8	.0	81.5

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.6	3.7	2.8	.4	.0	.0		8.5	9.4		5.8	11.7	9.6	10.4	10.2	6.2	7.7	6.0
NE	1.1	4.4	2.2	.2	.0	.0		7.9	8.8		4.0	5.1	8.4	10.8	14.8	10.1	7.9	3.4
E	1.5	8.3	7.3	1.2	.7	.0		18.9	12.0		15.9	15.6	18.9	23.6	20.4	24.7	18.6	10.8
SE	.9	7.5	14.0	3.9	.8	.0		27.1	15.1		28.7	21.3	34.7	31.8	22.8	27.3	22.7	27.2
S	.8	5.0	8.3	3.4	.5	.0		17.9	13.4		18.6	22.1	19.9	16.5	14.8	14.5	18.9	17.2
SW	.9	2.6	3.3	1.0	.3	.0		8.1	13.4		12.4	11.7	3.1	2.8	6.1	5.8	9.8	10.5
W	.7	2.1	1.6	.4	.0	.0		4.7	10.2		7.3	5.9	3.3	2.4	4.6	3.9	5.5	6.5
NW	.3	2.9	2.4	.1	.0	.0		5.7	9.9		8.2	5.9	2.5	1.0	5.3	7.1	7.6	8.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.1							1.1	.0		1.2	.8	1.6	.7	1.0	.6	1.2	1.7
TOT OBS	102	420	481	124	27	0	1154		12.7		82	128	183	144	103	154	244	118
TOT PCT	8.8	36.4	41.7	10.7	2.3	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	3.6	3.4	1.5	*	.0		8.5	9.4	9.4	9.9	7.8	7.2	
NE	3.1	4.0	.8	.0	.0		7.9	8.8	4.6	8.3	12.0	6.5	
E	5.4	8.9	3.5	1.1	.0		18.9	12.0	15.7	20.9	23.0	16.1	
SE	3.1	13.1	9.1	1.7	.1		27.1	15.1	24.2	33.4	25.5	24.2	
S	2.0	8.8	5.2	1.9	*		17.9	15.4	20.7	18.4	14.5	18.3	
SW	2.2	3.3	2.0	.6	.0		8.1	13.4	11.2	3.0	5.9	12.6	
W	1.6	2.3	.8	.0	.0		4.7	10.2	6.4	2.9	4.2	5.8	
NW	2.2	2.8	.6	*	.0		5.7	9.9	6.8	1.8	6.4	7.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.1						1.1	.0	1.3	1.2	.8	1.4	
TOT OBS	280	539	271	62	2	1154		12.7	210	327	257	360	
TOT PCT	24.3	46.7	23.5	5.4	.2		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.0	9.0	28.1	48.1	11.9	1.9	.0	12.3	100.0	210
06009	1.2	8.6	36.7	39.1	11.3	3.1	.0	12.8	100.0	327
12015	.8	5.1	42.8	39.7	10.5	1.2	.0	12.5	100.0	257
18021	1.4	8.1	36.4	41.7	9.7	2.8	.0	12.5	100.0	360
TOT	1.3	8.9	42.0	48.1	12.4	2.7	0	12.7		1154
PCT	1.1	7.7	36.4	41.7	10.7	2.3	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS'D	TOTAL OBS	MEAN CLOUD COVER
N	4.0	2.4	1.4	.4		2.8
NE	4.3	2.5	1.1	.9		2.9
E	7.7	3.5	3.2	3.9		4.1
SE	5.7	8.4	9.5	3.8		4.5
S	7.7	4.4	2.5	4.0		3.7
SW	3.4	1.4	.8	1.4		3.1
W	3.1	.2	.4	.1		1.7
NW	3.1	.9	1.8	.4		3.0
VAR	.0	.0	.0	.0		.0
CALM	1.1	.0	.3	.0		2.2
TOT OBS	140	83	73	52	348	3.7
TOT PCT	40.2	23.9	21.0	14.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3000	5000	6000	8000+	NH <5/8 ANY Hgt	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.0	.2	.9	.4	.2	.0	.0	.0	.0	6.7
.1	.0	.1	.0	.1	1.0	.0	.0	.0	.0	.0	7.3
.2	.2	.8	1.1	2.2	.8	.3	.2	.0	.0	.0	12.1
.3	.1	.3	1.9	2.8	2.4	.9	.1	.1	.1	.0	18.8
.0	.0	.0	.7	3.6	.3	.3	.0	.2	.0	.0	13.5
.3	.0	.0	.4	.8	.1	.0	.0	.0	.0	.0	3.5
.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	5.0
.0	.0	.0	.1	.3	.5	.4	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4
.3	1	4	15	37	20	7	2	1	1	257	348
.9	.3	1.1	4.3	10.6	5.7	2.0	.6	.3	.3	73.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >8500	.6	.6	.6	.6	.6	.6	.6	.6
= OR >5000	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3500	2.6	2.6	2.6	2.9	2.9	2.9	2.9	2.9
= OR >2000	7.8	8.3	8.3	8.6	8.6	8.6	8.6	8.6
= OR >1000	16.1	18.7	19.0	19.3	19.3	19.3	19.3	19.3
= OR >600	19.5	23.0	23.3	23.6	23.6	23.6	23.6	23.6
= OR >300	19.8	23.9	24.4	24.7	24.7	24.7	24.7	24.7
= OR >150	19.8	24.1	24.7	25.0	25.0	25.0	25.0	25.0
= OR >0	20.1	25.0	25.6	25.9	25.9	25.9	25.9	25.9
TOTAL	70	87	89	90	90	90	90	90

TOTAL NUMBER OF OBS: 348

PCT FREQ NH <5/8: 74.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS'D	TOTAL OBS
12.0	18.4	17.8	13.8	10.9	6.1	5.6	5.3	9.6	.5	376

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
1<2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.3	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.1	.0	.0	.4	
2<5	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.3	
5<10	PCP	.5	1.8	3.5	3.2	1.9	1.0	.1	.1	.0	.0	12.1	
	NO PCP	3.0	2.7	6.1	10.1	8.3	2.6	2.4	1.7	.0	.0	36.7	
	TOT %	3.5	4.4	9.6	13.4	10.1	3.5	2.5	1.8	.0	.0	48.8	
10+	PCP	.0	*	.3	.6	.8	*	.1	.0	.0	.0	1.9	
	NO PCP	4.7	4.2	9.2	12.4	8.8	3.4	2.1	2.9	.0	.0	48.3	
	TOT %	4.7	4.2	9.5	13.0	9.5	3.4	2.2	2.9	.0	.0	50.1	
TOT OBS													754
TOT PCT		8.2	8.6	19.3	26.8	19.9	7.0	4.6	4.8	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	11-21	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.1	.0	.0	.1	.0	.0	.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.2	.2	.1	.0	.0	.0	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.4	.2	.1	.0	.0	.0	.0	.0	.7	
5<10	0-3	.7	.5	.6	.3	.3	.2	.4	.1	.0	.0	3.1	
	4-10	1.0	1.7	3.1	3.0	3.1	1.1	1.5	.7	.0	.0	15.2	
	11-21	1.1	1.5	3.9	7.7	4.3	1.4	.5	.7	.0	.0	21.2	
	22+	.4	.3	1.5	2.3	1.8	.9	.0	.1	.0	.0	7.3	
	TOT %	3.2	4.0	9.1	13.2	9.5	3.6	2.4	1.7	.0	.0	46.7	
10+	0-3	.8	.7	1.4	.7	.8	.8	.4	.1	.0	.7	6.3	
	4-10	2.4	2.7	4.9	3.0	2.1	1.7	.9	1.4	.0	.0	19.0	
	11-21	1.6	.9	3.2	7.2	4.7	1.7	.8	1.4	.0	.0	21.5	
	22+	.1	.0	.1	2.2	1.8	.5	.3	*	.0	.0	5.0	
	TOT %	4.9	4.3	9.6	13.0	9.4	4.7	2.4	2.9	.0	.7	51.8	
TOT OBS													841
TOT PCT		8.1	8.3	19.1	26.9	19.1	8.3	4.8	4.7	.0	.7	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	2.4	.0	1.2	2.4	8.3	4.8	1.2	.0	.0	.0	20.2	79.8	84
06009	.0	1.1	1.1	4.6	19.5	3.4	1.1	1.1	.0	1.1	33.3	66.7	87
12015	.0	.0	.0	2.0	3.0	10.1	3.0	1.0	.0	.0	19.2	80.8	99
18021	1.1	.0	2.1	7.4	10.5	3.2	2.1	.0	1.1	.0	27.4	72.6	95
TOT	3	1	4	15	37	20	7	2	1	1	91	274	365
PCT	.8	.3	1.1	4.1	10.1	5.5	1.9	.5	.3	.3	24.9	75.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	.0	1.4	39.9	58.8	148
06009	.4	.0	.0	1.3	52.3	46.0	237
12015	.0	.0	1.0	.5	37.9	60.6	198
18021	.0	.7	.4	.0	52.4	46.5	269
TOT	1	2	3	6	399	441	852
PCT	.1	.2	.4	.7	46.8	51.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	2.5	3.8	6.3	15.0	78.8	80
06009	.0	2.4	8.5	26.8	64.6	82
12015	.0	.0	3.1	16.7	80.2	96
18021	1.1	3.3	11.1	16.7	72.2	90
TOT	3	8	25	65	258	348
PCT	.9	2.3	7.2	18.7	74.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.3	.7	.7	.3	.0	12	2.0
75/79	.0	.2	.3	2.7	7.0	13.4	7.3	3.0	203	33.9
70/74	.0	.2	.8	3.0	11.4	17.7	13.2	5.7	311	51.9
65/69	.0	.0	.7	.8	1.3	1.2	3.0	3.3	62	10.4
60/64	.0	.0	.5	.0	.0	.0	.2	.0	4	.7
55/59	.0	.0	.0	.3	.0	.2	.2	.5	7	1.2
TOTAL	0	2	14	43	122	198	145	75	599	100.0
PCT	.0	.3	2.3	7.2	20.4	33.1	24.2	12.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.4	.2	.0	.4	.6	.0	.5	.3	.0	.0
75/79	4.5	3.8	8.2	7.1	4.5	.8	1.1	3.7	.0	.3
70/74	3.3	4.0	10.6	16.7	9.4	3.9	1.9	1.6	.0	.5
65/69	.1	.1	1.4	1.8	3.2	2.1	1.7	.1	.0	.0
60/64	.0	.0	.0	.0	.5	.2	.0	.0	.0	.0
55/59	.0	.0	.0	.2	.3	.5	.2	.0	.0	.0
TOTAL	8.3	8.1	20.2	25.7	18.5	7.4	5.3	5.6	.0	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	85	82	80	75	69	62	58	74.6	212
06009	82	81	79	74	69	66	60	74.0	323
12015	79	78	78	73	69	64	61	73.0	256
18021	83	79	77	73	66	58	58	72.2	360
TOT	85	80	78	73	68	59	58	73.3	1151

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	11.7	24.3	39.8	19.4	4.9	72	103
06009	.0	10.7	21.4	30.8	26.4	10.7	75	159
12015	.0	7.3	22.7	36.0	22.0	12.0	75	150
18021	.0	9.7	15.9	28.2	28.2	17.9	77	195
TOT	0	39	124	199	150	75	75	607

APRIL

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1860-1972

TABLE 17

AREA 0005 BRISBANE
26.85 153.4EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	N FOG	MO FOG
11/13	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
7/8	.0	.0	.0	.0	.2	.5	.2	9	.0	.8
6	.0	.0	.0	.0	.0	.2	.2	2	.0	.3
5	.0	.0	.0	.3	.3	.2	.3	7	.0	1.1
4	.0	.0	.0	.2	.6	.5	.3	10	.0	1.6
3	.0	.0	.0	.3	2.0	.8	.3	22	.0	3.5
2	.0	.0	.0	.2	2.2	1.6	.2	26	.0	4.1
1	.0	.0	.0	1.3	4.1	4.2	.0	61	.0	9.6
0	.0	.0	.0	2.0	7.2	2.7	.0	76	.0	11.9
-1	.0	.0	.0	2.8	10.2	1.9	.0	95	.0	14.9
-2	.0	.0	.3	3.6	9.9	.8	.0	93	.0	14.6
-3	.0	.2	.5	4.2	5.3	.2	.0	66	.0	10.4
-4	.0	.0	.3	4.6	3.5	.2	.0	54	.0	8.5
-5	.0	.2	.2	2.8	3.0	.3	.0	41	.0	6.4
-6	.0	.2	.6	2.0	1.9	.0	.0	30	.0	4.7
-7/-8	.2	.3	1.7	2.8	.3	.0	.0	34	.0	5.3
-9/-10	.0	.0	.6	.6	.0	.0	.0	8	.0	1.3
-11/-13	.0	.3	.3	.2	.0	.0	.0	5	.0	.8
-14/-16	.0	.2	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	1	8	29	178	323	89	9	637	0	637
PCT	.2	1.3	4.6	27.9	50.7	14.0	1.4	100.0		100.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.4	.0	.0	.0	.0	1.4	.4	1.3	.0	.0	.0	.0	1.6
1-2	.0	2.6	.3	.0	.0	.0	2.9	.0	4.5	.4	.0	.0	.0	4.8
3-4	.3	.5	1.4	.0	.0	.0	2.2	.1	1.3	.4	.0	.0	.0	1.7
5-6	.0	.0	.4	.4	.0	.0	.7	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.6	2.3	.4	.0	.0	7.5	.5	7.0	1.2	.1	.0	.0	8.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.4	.0	.0	.0	.0	3.2	.0	.9	.0	.0	.0	.0	.9
1-2	.4	4.4	.4	.0	.0	.0	5.1	.4	1.6	1.8	.0	.0	.0	3.7
3-4	.0	3.2	3.0	.0	.0	.0	6.2	.0	1.8	5.2	.5	.0	.0	7.6
5-6	.0	.7	2.9	.3	.0	.0	3.9	.0	.7	6.7	1.6	.4	.0	9.3
7	.0	.0	.4	.3	.0	.0	.6	.0	.0	3.6	.8	.0	.0	4.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.8	.1	.0	2.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.0	1.5
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.2
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	2.2	9.7	7.0	.8	.0	.0	19.7	.4	5.0	18.5	5.4	.6	.0	29.9

PERIOD: (OVER-ALL) 1963-1972

APRIL

AREA 0005 BRISBANE
26.85 153.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.0	.5	.0	.0	.0	.0	1.5	.1	.4	.0	.0	.0	.0	.5	
1-2	.4	1.0	1.1	.0	.0	.0	2.5	.0	.9	.1	.0	.0	.0	1.0	
3-4	.0	1.6	2.3	.9	.0	.0	4.8	.0	.5	.8	.0	.0	.0	1.4	
5-6	.0	.0	2.6	.7	.0	.0	3.4	.0	.0	.5	.0	.0	.0	.5	
7	.0	.0	1.1	1.2	.0	.0	2.3	.0	.0	.5	1.3	.0	.0	1.7	
8-9	.0	.0	.9	1.2	.3	.0	2.4	.0	.0	.5	.5	.0	.0	1.0	
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.4	.0	.0	.0	.7	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.4	3.2	8.0	5.0	.8	.0	18.4	.1	1.8	2.6	1.8	.4	.0	6.8	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.7	.0	.0	.0	.0	.7	
1-2	.4	.3	.6	.0	.0	.0	1.3	.0	.5	.1	.0	.0	.0	.9	
3-4	.0	.4	.4	.0	.0	.0	.7	.0	.0	1.2	.0	.0	.0	1.6	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7	
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.8	.0	.0	.0	.8	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	1.0	1.3	.0	.0	.0	2.6	.0	2.0	2.8	.0	.0	.0	4.8	98.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.7	5.9	.0	.0	.0	.0	11.7	
1-2	1.5	16.1	4.7	.0	.0	.0	22.3	
3-4	.4	9.9	14.6	1.5	.0	.0	26.3	
5-6	.0	1.5	13.9	2.9	.4	.0	18.6	
7	.0	.0	8.9	3.6	.0	.0	10.6	
8-9	.0	.0	2.9	2.6	.4	.0	5.8	
10-11	.0	.0	.4	1.8	.4	.0	2.6	
12	.0	.0	.0	.0	.0	.0	.4	
13-16	.0	.0	.4	.4	.0	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.4	.0	.4	
26-32	.0	.0	.0	.4	.4	.0	.7	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.6	34.3	43.8	13.5	1.8	.0	100.0	274

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	7.6	11.0	6.7	2.0	1.7	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	107	4
6-7	.0	1.7	11.9	10.5	6.7	2.6	.9	.9	1.7	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	129	6
8-9	.0	.6	2.9	4.4	5.2	2.9	1.5	1.2	.6	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	69	7
10-11	.0	.3	.6	.6	1.5	.9	1.2	.6	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	22	8
12-13	.0	.0	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	4	19
>13	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
INDET	.3	.6	.3	.6	.6	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	6
TOTAL	5	37	92	79	56	30	14	11	12	4	0	1	3	0	0	0	0	0	0	344	6
PCT	1.5	10.8	26.7	23.0	16.3	8.7	4.1	3.2	3.5	1.2	.0	.3	.9	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1870-1972

MAY

AREA 0005 BRISBANE
26.75 153.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	3.7	1.6	.0	.0	.0	.0	.0	5.3	.0	3.7	.0	.0	1.6	.0	89.3
NE	6.3	.0	3.4	.0	.0	.0	.0	9.8	2.0	3.9	.0	.0	.0	.0	84.4
E	6.3	12.9	2.1	.0	.0	.0	.0	21.3	5.6	2.3	.0	.0	.0	.0	70.7
SE	2.9	11.6	.0	.0	.0	.0	.0	14.5	1.7	.7	2.1	.0	.0	.0	81.0
S	2.7	6.0	.6	.0	.0	.0	.0	8.7	1.6	.0	.0	.0	.0	.0	89.7
SW	.2	.0	.7	.0	.0	.0	.0	.9	.0	2.9	.0	.0	4.6	.0	91.6
W	.0	1.0	1.0	.0	.0	.0	.0	2.1	.0	1.8	.0	.0	2.3	1.0	92.8
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.4	.0	98.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.9	.0	93.1
TOT PCT	2.5	5.0	.8	.0	.0	.0	.0	8.2	1.4	1.7	.4	.0	1.4	.1	86.8
TOT OBS:	844														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	2.7	1.6	1.6	.0	.0	.0	.0	5.5	2.2	.0	.0	.0	.5	.5	91.3
06009	2.6	8.3	.4	.0	.0	.0	.0	11.4	.4	.4	.9	.0	.4	.0	86.4
12015	3.1	5.6	1.0	.0	.0	.0	.0	9.7	2.1	3.1	.5	.0	1.5	.0	83.1
18021	1.9	4.2	.4	.0	.0	.0	.0	6.4	1.1	2.6	.0	.0	2.6	.0	87.2
TOT PCT TOT OBS:	2.5 671	5.1	.8	.0	.0	.0	.0	8.3	1.4	1.6	.3	.0	1.4	.1	86.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	1.3	3.7	1.7	.1	.0	.0		6.9	8.1	5.2	7.4	9.7	10.0	11.1	5.7	4.2	4.4	
NE	.9	4.4	1.2	.1	.0	.0		6.5	8.1	7.9	3.5	8.0	8.6	7.5	7.1	5.8	5.0	
E	.5	4.5	5.6	.8	.1	.0		11.5	12.6	14.2	7.9	11.2	12.0	19.2	13.1	11.7	6.0	
SE	.9	6.0	8.5	2.4	.6	.1		18.5	14.3	17.3	19.7	20.4	23.4	17.5	20.2	15.6	14.4	
S	1.0	7.3	8.1	2.0	.8	.0		19.2	13.8	18.9	20.9	23.2	18.6	15.6	16.8	17.7	20.5	
SW	1.2	7.8	6.2	.9	.3	.0		16.5	11.5	17.1	16.5	9.7	8.9	9.9	17.1	21.8	26.5	
W	1.0	5.8	3.7	.2	.0	.0		10.7	9.7	12.2	12.1	9.3	8.6	5.5	9.6	11.3	15.8	
NW	.5	4.3	2.0	*	.0	.0		6.8	8.8	3.6	7.4	6.5	4.3	7.0	8.2	8.9	6.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.4							3.4	.0	3.6	4.7	2.0	5.7	6.7	2.2	3.0	1.3	
TOT OBS	143	584	491	86	24	1	1329		11.4	111	170	201	140	104	183	271	149	
TOT PCT	10.8	43.9	36.9	6.5	1.8	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	3.0	3.6	.4	.0	.0		6.9	8.1	6.5	9.8	7.7	4.3	
NE	2.7	3.6	.2	.1	.0		6.5	8.1	5.2	8.2	7.2	5.5	
E	1.7	6.9	2.5	.4	*		11.5	12.6	10.4	11.5	15.3	9.7	
SE	3.8	7.7	5.7	1.1	.2		18.5	14.3	18.8	21.6	19.3	15.2	
S	3.0	10.5	4.0	1.5	.1		19.2	13.8	20.1	21.3	16.4	18.7	
SW	4.2	8.8	2.8	.6	.1		16.5	11.5	16.7	9.4	14.5	23.5	
W	2.9	6.5	1.1	.1	.0		10.7	9.7	12.1	9.0	8.1	12.9	
NW	2.2	4.3	.3	.0	.0		6.8	8.8	5.9	5.6	7.8	7.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.4						3.4	.0	4.3	3.5	3.8	2.4	
TOT OBS	357	690	226	50	6	1329		11.4	281	341	287	420	
TOT PCT	26.9	51.9	17.0	3.8	.5		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00&03	4.3	7.8	38.8	28.8	8.9	1.4	.0	11.5	100.0	281
06&09	3.5	10.3	41.9	34.3	7.3	2.3	.3	11.3	100.0	341
12&15	3.8	5.2	48.1	36.6	4.5	1.7	.0	11.0	100.0	287
18&21	2.4	6.2	46.2	38.1	5.5	1.7	.0	11.5	100.0	420
TOT	45	98	584	491	86	24	1	11.4		1329
PCT	3.4	7.4	43.9	36.9	6.5	1.8	.1		100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTIONPCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	3.0	.7	2.9	1.0		4.2
NE	1.7	.2	2.5	2.2		5.2
E	3.9	2.4	3.4	2.5		4.6
SE	5.6	3.6	6.7	.9		3.9
S	7.7	3.8	4.2	1.9		3.4
SW	7.9	2.2	3.9	.9		3.1
W	3.9	1.4	4.2	2.2		4.1
NW	3.9	.6	1.4	.9		3.3
VAR	.0	.0	.0	.0		.0
CALM	4.7	.0	1.0	.0		1.3
TOT OBS	170	60	121	50	401	3.7
TOT PCT	42.4	15.0	30.2	12.5	100.0	

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.2	.4	.5	.0	.0	.0	.6	5.9	
.0	.0	.0	.3	1.3	.4	.2	.2	.2	.2	.2	3.6
.0	.0	.2	1.4	2.0	1.0	.2	.0	.0	.0	.0	7.4
.0	.0	.2	.4	2.3	.9	.3	.0	.0	.0	.0	12.7
.0	.0	.0	1.2	1.1	.7	.5	.2	.1	.2	.2	13.5
.0	.0	.0	.0	.8	.7	.0	.1	.1	.7	.7	12.5
.0	.0	.0	.0	.0	.4	.5	.0	.2	3.1	7.2	
.0	.0	.0	.0	.2	.3	.0	.0	.0	.4	5.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	5.2
.0	.0	.2	15	34	21	7	2	3	21	296	401
.0	.0	.5	3.7	8.5	5.2	1.7	.5	.7	5.2	73.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	4.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9
= OR >5000	5.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
= OR >3500	7.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
= OR >2000	11.5	13.4	13.4	13.4	13.4	13.4	13.4	13.4
= OR >1000	18.3	21.0	21.0	21.0	21.0	21.0	21.0	21.0
= OR >600	19.8	24.2	25.4	25.4	25.4	25.4	25.4	25.4
= OR >300	19.8	24.4	25.9	25.9	25.9	25.9	25.9	25.9
= OR >150	19.8	24.4	25.9	25.9	25.9	25.9	25.9	25.9
= OR >0	19.8	24.4	25.9	25.9	25.9	25.9	25.9	25.9
TOTAL	81	100	106	106	106	106	106	106

TOTAL NUMBER OF OBS: 409

PCT FREQ NH <5/8: 74.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
17.5	19.3	14.8	13.6	8.6	5.2	9.3	4.5	7.0	440

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	NO PCP	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8	.8
	TOT %	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.9	.9
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1
	TOT %	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1
2<5	PCP	.1	.1	.5	*	.0	.0	.0	.0	.0	.0	.7	.7
	NO PCP	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	.2	.2
	TOT %	.2	.1	.6	*	.0	.0	.0	.0	.0	.0	.9	.9
5<10	PCP	.1	.5	1.5	1.8	1.2	.1	.2	.0	.0	.0	5.5	5.5
	NO PCP	3.1	2.3	3.6	6.0	8.7	7.7	5.7	3.0	.0	.0	40.8	40.8
	TOT %	3.1	2.8	5.2	7.8	9.9	7.8	5.9	3.0	.0	.0	46.2	46.2
10+	PCP	.2	.1	.7	.5	.4	*	.0	.0	.0	.0	1.9	1.9
	NO PCP	3.6	3.1	6.2	7.8	8.4	8.7	5.5	3.7	.0	2.8	49.9	49.9
	TOT %	3.9	3.2	6.8	8.3	8.8	8.7	5.5	3.7	.0	2.8	51.8	51.8
TOT OBS													844
TOT PCT		7.2	6.1	12.6	17.1	18.7	16.6	11.6	6.7	.0	3.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	.1
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	.5
	22+	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	.3
	TOT %	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.8	.8
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	.2
	11-21	.0	.1	.6	.2	.1	.0	.0	.0	.0	.0	.9	.9
	22+	.1	*	.0	.0	.2	.1	.0	.0	.0	.0	.3	.3
	TOT %	.2	.1	.6	.2	.3	.1	.1	.0	.0	.0	1.4	1.4
5<10	0-3	.9	.5	.3	.4	.9	.9	.5	.3	.0	.5	5.1	5.1
	4-10	1.5	1.7	1.8	1.9	3.5	3.0	2.8	1.7	.0	.0	17.9	17.9
	11-21	.2	.5	2.4	3.3	3.4	2.8	1.8	.6	.0	.0	19.0	19.0
	22+	.1	.0	.6	2.1	1.5	.4	.1	*	.0	.0	4.7	4.7
	TOT %	2.7	2.6	5.1	7.7	9.3	7.1	5.2	2.6	.0	.5	42.6	42.6
10+	0-3	.5	.4	.1	.3	.4	.6	.5	.2	.0	2.6	5.7	5.7
	4-10	2.2	2.4	2.9	4.2	4.1	4.5	3.3	2.4	.0	.0	26.0	26.0
	11-21	1.0	.6	3.1	4.4	4.5	3.3	1.8	1.2	.0	.0	19.8	19.8
	22+	.0	.0	.5	1.3	.9	.6	.2	.0	.0	.0	3.5	3.5
	TOT %	3.7	3.4	6.6	10.3	9.8	9.0	5.7	3.8	.0	2.6	54.9	54.9
TOT OBS													985
TOT PCT		6.5	6.0	12.2	19.0	19.4	16.2	11.2	6.4	.0	3.1	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	4.3	8.6	3.4	3.4	.0	.0	6.0	25.9	74.1	116
06009	.0	.0	.0	2.2	9.7	7.5	.0	.0	1.1	8.6	29.0	71.0	93
12015	.0	.0	1.8	3.7	4.6	4.6	2.8	1.8	.9	2.8	22.9	77.1	109
18021	.0	.0	.0	3.5	8.8	5.3	.0	.0	.9	2.7	21.2	78.8	113
TOT	0	0	2	15	34	22	7	2	3	21	106	925	431
PCT	.0	.0	.5	3.5	7.9	5.1	1.6	.5	.7	4.9	24.6	74.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.0	.0	.0	33.8	65.2	204
06009	.0	1.1	.0	.8	48.1	50.0	264
12015	.0	.4	.4	2.6	39.9	56.6	228
18021	.3	.6	.0	1.9	47.2	50.0	316
TOT	1	8	1	14	436	552	1012
PCT	.1	.8	.1	1.4	43.1	54.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ ANDS+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	4.6	22.9	72.5	109
06009	.0	.0	3.3	26.7	70.0	90
12015	.0	1.9	6.8	17.5	75.7	103
18021	.0	.0	4.7	17.8	77.6	107
TOT	0	2	20	86	303	409
PCT	.0	.5	4.9	21.0	74.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
75/79	.0	.0	.3	1.2	1.6	2.4	.9	.3	39	6.8
70/74	.0	.2	1.9	5.9	14.4	15.3	9.0	3.0	286	49.7
65/69	.0	.0	2.6	4.7	7.7	10.4	5.9	3.1	198	34.4
60/64	.0	.0	.7	2.3	1.9	.7	.7	.9	41	7.1
55/59	.0	.0	.0	.3	.7	.2	.2	.0	8	1.4
50/54	.0	.0	.0	.0	.2	.2	.0	.0	2	.3
TOTAL	0	1	32	84	152	168	96	42	575	100.0
PCT	.0	.2	5.6	14.6	26.4	29.2	16.7	7.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.2	.0	.0	.0	.0	.0	.0
.8	.8	1.4	1.4	.3	.7	.4	.6	.0	.3
4.9	3.9	9.3	11.7	6.9	5.0	3.2	3.3	.0	1.4
1.2	.7	2.2	3.6	10.0	8.1	5.2	2.5	.0	.9
.0	.0	.0	.0	1.7	3.5	1.1	.1	.0	.7
.0	.0	.0	.0	.3	.6	.4	.0	.0	.2
.0	.0	.0	.0	.0	.2	.2	.0	.0	.0
6.9	5.4	13.1	16.9	19.2	18.0	10.5	6.5	.0	3.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	79	77	71	63	62	59	70.4	286
06009	81	79	75	71	65	63	58	70.5	338
12015	77	75	74	70	63	59	58	69.2	284
18021	79	77	74	69	61	58	54	68.2	415
TOT	81	78	75	70	63	59	54	69.5	1303

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	24.0	23.2	30.4	14.4	8.0	69	125		
06009	.0	27.3	29.2	29.4	14.7	3.5	68	143		
12015	.0	16.8	28.9	29.0	17.2	9.0	72	145		
18021	.0	17.1	27.6	27.1	19.9	8.9	71	181		
TOT	0	124	156	171	100	43	70	594		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.3	.0	.0	2	.0	.3
7/8	.0	.0	.0	.0	.0	.1	.1	.1	2	.0	.3
6	.0	.0	.0	.0	.1	.4	.0	.1	5	.0	.7
5	.0	.0	.0	.1	.7	.0	.1	.0	7	.0	.9
4	.0	.0	.0	.0	.7	.1	.4	.0	9	.0	1.2
3	.0	.0	.0	.1	1.1	.4	.3	.0	14	.0	1.9
2	.0	.0	.3	.3	.9	.9	.5	.0	22	.0	3.0
1	.0	.0	.1	.7	1.9	1.3	.4	.0	33	.0	4.4
0	.0	.0	.0	.9	3.2	1.7	.0	.0	44	.0	5.9
-1	.0	.1	.1	1.3	4.7	5.1	.5	.0	89	.3	11.7
-2	.0	.0	.3	1.5	9.1	3.5	.3	.0	109	.0	14.7
-3	.0	.0	.7	2.2	7.1	2.0	.0	.0	89	.1	11.8
-4	.0	.0	.9	3.4	9.5	.8	.0	.0	109	.0	14.7
-5	.0	.0	.4	3.5	5.1	.8	.0	.0	73	.0	9.6
-6	.0	.0	.7	2.8	2.6	.1	.0	.0	46	.0	6.2
-7/-8	.0	.5	.8	4.8	1.5	.1	.0	.0	38	.0	7.8
-9/-10	.1	1.1	1.2	.7	.3	.0	.0	.0	25	.0	3.4
-11/-12	.1	.3	.3	.3	.0	.0	.0	.0	7	.0	.9
-14/-16	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	44	44	168	132	20	2	744	100.0	.4	99.6
PCT	.3	2.0	5.9	22.6	48.5	17.7	2.7	.3			

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.4	.0	.0	.0	.0	1.4	.4	1.1	.0	.0	.0	.0	1.5
1-2	.0	2.3	.0	.0	.0	.0	2.3	.4	1.0	.1	.0	.0	.0	1.4
3-4	.4	.6	.6	.0	.0	.0	1.6	.0	1.1	1.9	.0	.0	.0	3.1
5-6	.0	.0	.6	.5	.0	.0	1.1	.0	.0	.7	.1	.0	.0	.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.3	1.5	.5	.0	.0	6.7	.7	3.3	2.7	.1	.0	.0	6.8

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.2	.0	.0	.0	.0	1.2	.4	.6	.0	.0	.0	.0	1.0
1-2	.0	1.3	1.0	.0	.0	.0	2.3	.0	3.4	1.1	.0	.0	.0	4.4
3-4	.4	1.2	4.2	.0	.0	.0	5.8	.0	2.3	2.7	.0	.0	.0	5.0
5-6	.0	.0	3.6	.0	.0	.0	3.6	.0	1.1	4.2	.4	.0	.0	5.7
7	.0	.7	2.1	.0	.0	.0	2.8	.1	.0	1.1	.8	.0	.0	1.9
8-9	.0	.0	.4	.4	.0	.0	.7	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.8	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	4.5	11.3	1.0	.0	.0	17.1	.4	7.3	9.8	1.9	.0	.0	19.5

PERIOD: (OVER-ALL) 1963-1972

NAV

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26.75 153.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	3.2	.4	.0	.0	.0	3.5	.4	.7	.0	.0	.0	.0	1.1	
1-2	.0	2.7	.7	.0	.0	.0	3.4	.4	2.7	.4	.0	.0	.0	4.4	
3-4	.0	2.3	4.6	.0	.0	.0	7.5	.0	2.7	2.4	.4	.0	.0	5.5	
5-6	.0	.0	2.7	.4	.0	.0	3.0	.0	.0	1.6	.4	.0	.0	1.9	
7	.3	.0	.6	.5	.0	.0	1.4	.0	.4	.8	.8	.0	.0	1.9	
8-9	.0	.0	.7	.3	.0	.0	1.0	.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	8.1	9.6	2.1	.0	.0	20.1	.7	7.4	5.1	1.7	.0	.0	14.9	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.2	.0	.0	.0	.0	1.2	.0	1.1	.0	.0	.0	.0	1.1	
1-2	.0	1.9	.4	.0	.0	.0	2.3	.4	1.4	.4	.0	.0	.0	2.1	
3-4	.0	1.3	.3	.0	.0	.0	1.6	.0	.4	1.2	.0	.0	.0	1.7	
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.1	.1	.0	.0	.2	
7	.0	.0	.0	.4	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	4.5	1.9	.4	.0	.0	6.8	.4	2.9	2.1	.1	.0	.0	5.5	97.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.8	11.0	.3	.0	.0	.0	16.2	
1-2	1.0	17.2	3.8	.0	.0	.0	22.1	
3-4	.7	11.7	17.6	1.0	.0	.0	31.0	
5-6	.3	1.0	14.5	1.7	.0	.0	17.6	
7	.3	1.0	4.8	2.4	.0	.0	8.6	
8-9	.0	.0	1.7	.7	.0	.0	2.4	
10-11	.0	.0	.3	1.7	.0	.0	2.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.2	42.1	43.1	7.6	.0	.0	100.0	290

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.5	8.7	10.9	5.9	1.2	.5	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	122	3
6-7	.0	1.0	9.7	9.9	5.4	.5	2.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	5
8-9	.0	.5	2.7	4.7	4.7	1.7	2.2	.7	.7	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	74	7
10-11	.0	1.0	.5	.7	1.2	.2	1.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	6
12-13	.0	.0	.2	.2	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	7
>13	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	12.6	.7	.7	1.0	.2	.2	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	65	1
TOTAL	61	48	100	91	53	14	24	7	5	1	0	0	0	0	0	0	0	0	0	404	4
PCT	15.1	11.9	24.8	22.5	13.1	3.5	5.9	1.7	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1912-1971
(OVER-ALL) 1857-1971

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26.85 153.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	13.2	5.9	.0	.0	.0	.0	.0	19.1	2.0	2.0	.0	.0	.0	.0	77.0
NE	4.6	11.1	.0	.0	.0	.0	.0	15.7	3.7	.0	3.7	.0	.0	.0	76.9
E	18.4	8.3	4.8	.0	.0	.0	.0	31.4	.0	.0	.0	.0	.0	.0	68.6
SE	9.1	14.2	.2	.0	.0	.0	.0	23.5	4.0	.8	.0	.0	.0	.0	72.5
S	8.0	6.7	1.0	.0	.0	.0	.0	15.7	4.3	1.0	.0	.0	.5	.0	79.0
SW	2.2	1.5	.7	.0	.0	.0	.0	4.4	.9	1.5	.0	.0	1.8	.0	91.5
W	2.1	.0	.0	.0	.0	.0	.0	2.1	.0	3.2	.0	.0	.5	.0	94.1
NW	5.4	.5	.0	.0	.0	.0	.0	5.9	.5	.5	.0	.0	.0	.0	93.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	7.4	6.1	.9	.0	.0	.0	.0	14.3	2.2	1.2	.1	.0	.5	.0	81.8
TOT OBS:	760														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0603	7.2	4.6	1.3	.0	.0	.0	.0	13.1	3.9	.0	.0	.0	.0	.0	83.0
0609	5.2	6.1	.9	.0	.0	.0	.0	12.3	2.4	.5	.5	.0	.0	.0	84.4
1215	6.8	7.3	1.7	.0	.0	.0	.0	15.8	2.3	.6	.0	.0	1.1	.0	80.2
1821	10.0	5.8	.0	.0	.0	.0	.0	15.8	.8	2.9	.0	.0	.8	.0	80.5
TOT PCT	7.4	6.0	.9	.0	.0	.0	.0	14.3	2.2	1.1	.1	.0	.5	.0	82.0
TOT OBS:	783														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.0	2.5	1.3	.0	.0	.0		4.8	7.9	.8	3.0	6.1	8.4	5.5	7.3	3.8	1.6	
NE	.4	2.0	1.8	1.0	.0	.0		5.2	12.6	2.2	6.3	5.3	8.8	2.6	5.8	3.9	6.5	
E	.9	3.4	3.8	1.6	.7	.0		9.9	15.3	7.4	11.9	7.3	10.2	13.8	8.8	10.7	9.3	
SE	1.1	7.6	5.5	3.0	1.0	.3		18.5	15.3	22.3	19.6	22.6	15.0	20.7	15.4	17.5	16.1	
S	1.3	9.2	8.5	2.9	1.4	.5		23.8	15.2	33.0	21.1	28.8	23.7	28.8	18.0	20.6	22.4	
SW	1.4	6.8	7.3	2.5	.3	.0		18.4	13.0	15.9	21.1	14.6	12.8	11.4	16.0	22.9	29.5	
W	1.0	4.4	3.9	1.2	.1	.0		10.6	11.6	14.3	8.5	8.3	8.0	8.6	14.0	13.5	8.1	
NW	.4	4.2	2.1	.0	.0	.0		6.7	8.9	4.1	6.3	5.4	10.2	4.8	9.8	5.9	6.5	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.1							2.1	.0	.0	2.2	1.6	2.9	3.8	4.9	1.2	.0	
TOT OBS	110	478	408	145	42	10	1193		13.2		91	135	189	137	105	164	249	
TOT PCT	9.2	40.1	34.2	12.2	3.5	.8		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	2.2	2.5	.2	.0	.0		4.8	7.9	2.1	7.1	6.6	3.1
NE	1.7	1.9	1.5	.2	.0		5.2	12.6	4.6	6.7	4.6	4.8
E	1.5	4.7	2.7	.8	.2		9.9	15.3	10.1	8.5	10.8	10.3
SE	3.0	8.5	4.3	2.0	.5		18.5	15.3	20.7	19.4	17.5	17.0
S	4.3	10.9	5.4	2.4	.8		23.8	15.2	25.9	26.7	22.2	21.2
SW	4.4	8.2	4.7	1.1	.0		18.4	13.0	19.0	13.8	14.2	25.1
W	3.7	4.1	2.5	.3	.0		10.6	11.6	10.8	8.2	11.9	11.7
NW	2.8	3.4	.5	.0	.0		6.7	8.9	5.4	7.4	7.8	6.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.1						2.1	.0	1.3	2.1	4.5	.8
TOT OBS	306	527	260	82	18	1193		13.2	226	326	269	372
TOT PCT	25.6	44.2	21.8	6.9	1.5		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47	48+			
00003	1.3	8.0	33.2	38.1	14.2	4.4	.9	14.2	100.0	226
06009	2.1	8.3	44.2	29.4	11.0	4.6	.3	12.7	100.0	226
12015	4.5	6.7	42.4	30.9	12.3	2.2	1.1	12.7	100.0	269
18021	.8	5.9	39.0	38.4	11.8	3.0	1.1	13.4	100.0	272
TOT	25	85	478	408	145	42	10	13.2		1193
PCT	2.1	7.1	40.1	34.2	12.2	3.5	.8	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	1.8	.4	.5	.4		2.7
NE	.4	.4	1.5	.1		4.8
E	.4	.8	2.5	6.3		6.9
SE	4.0	4.2	5.0	6.0		9.1
S	7.8	8.3	9.5	5.4		4.5
SW	8.3	3.6	9.8	1.1		3.2
W	7.7	.6	1.4	.3		1.9
NW	2.3	.9	.0	.1		1.5
VAR	.0	.0	.0	.0		.0
CALM	1.4	.6	.0	.0		1.4
TOT OBS	121	70	93	70	354	4.1
TOT PCT	34.2	19.8	26.3	19.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.4	.0	.2	.0	.0	.0	.0	.2	2.5
NE	.0	.0	.0	.6	.4	.3	.0	.0	.0	.0	.3	1.1
E	.0	.0	.5	2.4	3.2	.8	.3	.0	.0	.0	.3	2.5
SE	.0	.0	1.2	4.0	3.1	.9	.0	.0	.0	.0	.0	10.0
S	.3	.0	1.9	3.5	4.4	1.3	.3	.0	.0	.0	.0	19.3
SW	.0	.0	.4	.6	1.3	1.3	.0	.0	.0	.0	.0	15.2
W	.0	.0	.0	.3	.3	.6	.0	.0	.0	.0	.0	8.9
NW	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	3.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0
TOT OBS	1	0	14	42	45	20	2	0	0	1	229	354
TOT PCT	.3	.0	4.0	11.9	12.7	5.6	.6	.0	.0	.3	64.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.3	.3	.3	.3	.3	.3	.3	.3
= OR >5000	.3	.3	.3	.3	.3	.3	.3	.3
= OR >3500	.8	.8	.8	.8	.8	.8	.8	.8
= OR >2000	6.2	6.5	6.5	6.5	6.5	6.5	6.5	6.5
= OR >1000	15.7	18.8	19.1	19.1	19.1	19.1	19.1	19.1
= OR >600	21.6	28.9	29.8	30.6	30.9	30.9	30.9	30.9
= OR >300	22.2	30.1	32.3	33.1	33.7	34.6	34.8	34.8
= OR >150	22.2	30.1	32.3	33.1	33.7	34.6	34.8	34.8
= OR > 0	22.2	30.1	32.3	33.1	34.0	34.8	35.1	35.1
TOTAL	79	107	115	118	121	124	125	125

TOTAL NUMBER OF OBS: 356

PCT FREQ NH <5/8: 64.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
12.2	16.5	14.2	12.2	10.4	7.1	7.1	6.3	14.2	.0	399

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.5	.0	.0	.0	.0	.0	.5	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.5	.0	.0	.0	.0	.0	.5	
1/2<1	PCP	.1	.0	.0	*	.2	.0	.0	*	.0	.0	.4	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.0	*	.2	.0	.0	*	.0	.0	.5	
1<2	PCP	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.2	.4	.1	.1	.0	.0	.0	.7	
2<5	PCP	.0	.0	.3	.2	.2	.0	.0	.0	.0	.0	.8	
	NO PCP	.0	.0	.0	.4	.1	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.0	.3	.6	.4	.0	.0	.0	.0	.0	1.3	
5<10	PCP	.9	.6	2.3	2.6	1.7	.3	.3	.3	.0	.0	8.9	
	NO PCP	2.3	1.8	3.6	5.2	8.8	7.6	6.5	3.6	.0	.3	39.6	
	TOT %	3.2	2.3	5.9	7.7	10.5	7.9	6.8	3.9	.0	.3	48.6	
10+	PCP	.0	.0	.6	1.0	1.2	.5	.0	.0	.0	.0	3.3	
	NO PCP	1.7	1.1	3.5	7.7	12.9	9.6	5.5	2.1	.0	.9	45.1	
	TOT %	1.7	1.1	4.1	8.7	14.1	10.1	5.5	2.1	.0	.9	48.4	
TOT OBS													760
TOT PCT		5.0	3.6	10.4	17.3	26.1	18.1	12.3	6.1	.0	1.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.1	.1	.4	.0	.0	.0	.0	.0	.6	
	TOT %	.0	.0	.1	.1	.4	.0	.0	.0	.0	.0	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	*	.2	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.1	.0	*	.2	.0	.0	*	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.2	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.1	.1	.1	.2	.0	.0	.0	.0	.0	.5	
	TOT %	.0	.1	.1	.1	.3	.1	.1	.0	.0	.0	.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.1	.6	.4	.3	.0	.0	.0	.0	.0	1.4	
	TOT %	.0	.2	.7	.7	.3	.0	.0	.0	.0	.0	1.9	
5<10	0-3	.8	.4	.5	.8	.6	.9	1.0	.2	.0	.4	5.4	
	4-10	1.2	1.0	1.4	2.7	4.4	2.0	1.8	2.2	.0	.0	16.9	
	11-21	1.1	.9	2.3	1.9	2.6	3.6	2.7	1.2	.0	.0	16.6	
	22+	.0	.3	1.6	2.1	1.8	.6	.5	.0	.0	.0	6.9	
	TOT %	3.1	2.6	5.8	7.4	9.6	7.1	6.1	3.6	.0	.4	45.8	
10+	0-3	.5	.1	.2	.4	.3	.7	.3	.1	.0	.9	3.4	
	4-10	1.2	.6	1.8	3.2	4.8	4.0	2.1	1.4	.0	.0	19.1	
	11-21	.6	.4	1.7	3.0	5.8	4.3	2.4	1.4	.0	.0	19.6	
	22+	.0	.1	.5	2.4	2.8	1.9	.8	*	.0	.0	8.4	
	TOT %	2.3	1.2	4.3	9.0	13.6	10.9	5.5	2.6	.0	.9	50.5	
TOT OBS													845
TOT PCT		5.6	4.1	10.9	17.3	24.5	18.1	11.7	6.5	.0	1.3	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	1.1	.0	3.4	11.2	13.5	6.7	.0	.0	.0	.0	36.0	64.0	89
06009	.0	.0	4.7	12.9	11.8	5.9	.0	.0	.0	.0	35.3	64.7	85
12015	.0	.0	3.9	10.7	9.7	3.9	.0	.0	.0	1.0	29.1	70.9	103
18021	.0	.0	2.8	9.4	12.3	4.7	1.9	.0	.0	.0	31.1	68.9	106
TOT	1	0	14	42	45	20	2	0	0	1	125	258	383
PCT	.3	.0	3.7	11.0	11.7	5.2	.5	.0	.0	.3	32.6	67.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							OBS
00003	.0	1.9	1.2	1.9	40.1	54.9	162
06009	.8	.4	.0	2.1	32.3	44.4	241
12015	1.0	.5	1.5	.5	38.4	58.1	198
18021	.4	.0	.4	2.6	51.3	45.3	267
TOT	5	5	6	16	404	432	868
PCT	.6	.6	.7	1.8	46.5	49.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HR	<150 <50YD	<600 <1	<1000 <5	1000+ ANDS+	NH <5/8 AND 5+	TOTAL
(GMT)						OBS
00003	1.2	6.0	18.1	20.5	61.4	83
06009	.0	4.9	18.3	18.3	63.4	82
12015	.0	4.2	15.6	15.6	68.8	96
18021	.0	3.2	13.7	21.1	65.3	95
TOT	1	16	58	67	231	356
PCT	.3	4.5	16.3	18.8	64.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									OBS	FREQ
75/79	.0	.0	.0	.0	.2	.2	.0	.0	2	.4
70/74	.0	.0	.5	1.8	3.6	4.8	4.3	1.8	94	16.8
65/69	.0	.0	1.8	7.7	14.6	16.2	11.2	9.6	343	61.1
60/64	.0	.0	.5	1.2	3.9	4.6	5.2	3.9	109	19.4
55/59	.0	.0	.0	.0	.5	.9	.4	.2	11	2.0
50/54	.0	.0	.0	.0	.2	.2	.0	.0	2	.4
TOTAL	0	0	16	60	129	151	118	87	561	100.0
PCT	.0	.0	2.9	10.7	23.0	26.9	21.0	15.5		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.2	.0	.2	.0	.0	.0
1.8	1.0	2.3	2.9	4.7	1.3	1.5	.7	.0	.5
7.3	1.6	7.0	13.5	15.8	10.4	4.4	4.3	.0	.9
.0	.4	.5	1.7	7.4	4.6	3.9	.8	.0	.0
.0	.0	.0	.0	.6	.1	1.2	*	.0	.0
.0	.0	.0	.0	.0	.2	.0	.2	.0	.0
5.1	3.0	9.8	18.1	28.7	16.7	11.1	6.1	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									OBS
00003	77	76	73	68	60	55	54	67.2	224
06009	76	74	72	67	62	59	57	67.1	334
12015	75	72	70	66	61	56	54	65.9	271
18021	77	72	70	65	58	53	53	65.1	370
TOT	77	74	71	66	60	56	53	66.2	1199

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)										OBS
00003	.0	11.9	29.4	28.4	16.5	13.8	73	109		
06009	.0	19.7	23.8	19.0	24.5	12.9	73	147		
12015	.0	11.3	19.0	37.3	17.6	14.8	75	142		
18021	.0	11.3	21.5	23.7	24.3	19.2	76	177		
TOT	0	78	132	154	122	89	74	575		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WD FOG
7/8	.0	.0	.0	.3	.0	.0	.2	3	.0	.5
6	.0	.0	.0	.2	.2	.0	.0	2	.0	.3
5	.0	.0	.0	.0	.5	.2	.0	4	.0	.6
4	.0	.0	.0	.0	.3	.3	.2	5	.0	.8
3	.0	.0	.0	.3	.3	.0	.0	5	.0	.8
2	.0	.0	.3	.9	.6	.2	.2	14	.2	2.0
1	.0	.0	.6	1.4	1.8	.2	.0	26	.0	3.9
0	.0	.3	.6	2.0	3.2	.2	.0	41	.0	6.2
-1	.0	.0	.6	2.7	4.4	.0	.0	51	.0	7.7
-2	.0	.3	.8	3.3	5.4	.0	.0	78	.0	11.7
-3	.0	.2	1.1	3.9	3.6	.2	.0	72	.0	10.8
-4	.2	.2	1.3	4.6	2.0	.0	.0	69	.0	10.4
-5	.0	.0	2.3	8.0	1.3	.0	.0	78	.0	11.7
-6	.0	.2	3.2	6.6	1.1	.0	.0	73	.0	11.0
-7/-8	.0	.5	6.0	6.0	.8	.0	.0	88	.0	13.2
-9/-10	.0	1.1	3.2	1.1	.0	.0	.0	35	.0	5.3
-11/-13	.3	1.4	.2	.3	.0	.0	.0	14	.0	2.1
-14/-16	.5	.2	.2	.0	.0	.0	.0	5	.0	.8
-17/-19	.3	.2	.0	.0	.0	.0	.0	3	.0	.5
TOTAL	8	28	135	316	169	7	3	666	1	665
PCT	1.2	4.2	20.3	47.4	25.4	1.1	.5	100.0	.2	99.8

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TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.5	.0	.0	.0	.0	.8	.1	.6	.0	.0	.0	.0	.7
1-2	.0	.2	.0	.0	.0	.0	.2	.0	.1	.3	.0	.0	.0	.4
3-4	.0	.3	.8	.0	.0	.0	1.3	.0	.4	.4	.0	.0	.0	.8
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.3	.8	.0	.0	.0	2.3	.1	1.1	1.0	.0	.0	.0	2.2

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.0	.0	.0	.0	.0	.2	.1	.7	.0	.0	.0	.0	.8
1-2	.0	1.1	.0	.0	.0	.0	1.1	.0	2.2	.7	.0	.0	.0	2.9
3-4	.0	1.6	1.4	.0	.0	.0	3.7	.0	1.3	1.9	.0	.0	.0	3.2
5-6	.0	.2	1.3	.0	.0	.0	1.7	.0	.7	2.7	.7	.1	.0	4.2
7	.0	.0	1.7	.3	.3	.0	2.5	.0	.0	1.5	1.4	.0	.0	2.9
8-9	.0	.0	.2	1.5	.0	.0	1.7	.0	.0	.4	.7	.6	.0	1.7
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.3	.0	1.2	1.2	.0	2.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	1.0	.3	.0	1.6
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.3	.0	1.5
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.2
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.0	4.8	2.9	.3	.0	11.2	.1	3.5	7.2	6.4	2.6	.2	22.0

PERIOD: (OVER-ALL) 1963-1971

JUNE

AREA 0005 BRISBANE
26.8S 153.5E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.2	.0	.0	.0	.0	1.2	.3	.7	.0	.0	.0	.0	1.0	
1-2	.0	5.5	2.6	.0	.0	.0	8.1	.3	2.8	1.6	.0	.0	.0	4.8	
3-4	.0	2.5	4.2	.5	.0	.0	7.2	.0	.5	3.3	.1	.0	.0	3.9	
5-6	.0	.3	4.1	1.7	.2	.0	6.4	.0	.3	1.6	.1	.0	.0	2.0	
7	.0	.0	1.1	1.7	.6	.0	3.4	.0	.0	.2	3.6	.0	.0	3.7	
8-9	.0	.0	.2	.6	.3	.0	1.2	.0	.0	.1	.4	.0	.0	.5	
10-11	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.3	.0	.0	.3	
12	.0	.0	.3	.5	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.7	.3	.0	1.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.3	.5	.9	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.2	.5	.9	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.2	.5	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	9.4	12.6	7.2	2.0	1.3	32.6	.6	4.3	6.9	4.4	.0	.0	16.2	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	1.4	.0	.0	.0	.0	1.7	.0	.8	.0	.0	.0	.0	.8	
1-2	.3	2.0	.5	.0	.0	.0	2.9	.0	.2	.4	.0	.0	.0	.5	
3-4	.0	.3	1.2	.6	.0	.0	2.1	.0	.3	1.5	.0	.0	.0	1.8	
5-6	.0	.0	.5	.3	.0	.0	.9	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.2	.3	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	3.7	2.5	1.5	.0	.0	8.3	.0	1.2	1.9	.0	.0	.0	3.2	98.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.1	5.9	.0	.0	.0	.0	9.0	
1-2	.6	14.0	6.2	.0	.0	.0	20.9	
3-4	.0	7.5	14.6	1.9	.0	.0	24.0	
5-6	.0	1.6	10.9	2.8	.3	.0	15.6	
7	.0	.0	4.7	7.5	.9	.0	13.1	
8-9	.0	.0	.9	3.4	.9	.0	5.3	
10-11	.0	.3	.0	2.8	1.2	.0	4.4	
12	.0	.3	.3	1.6	.3	.0	2.5	
13-16	.0	.0	.0	1.9	.6	.0	2.5	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.3	.0	.0	.3	
23-25	.0	.0	.0	.0	.3	.6	.9	
26-32	.0	.0	.0	.0	.3	.3	.6	
33-40	.0	.0	.0	.0	.0	.6	.6	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.7	29.6	37.7	22.4	5.0	1.6	100.0	321

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	4.2	11.5	5.3	1.4	1.4	.6	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	4
6-7	.0	.3	5.1	6.5	4.5	5.3	1.1	.3	.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	86	6
8-9	.0	.0	1.7	1.7	5.3	5.3	7.6	3.7	2.2	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	101	9
10-11	.0	.0	.6	1.4	1.1	1.7	1.7	1.1	1.7	.0	.0	.6	.8	.6	.6	.0	.0	.0	.0	42	14
12-13	.0	.0	.6	.6	1.4	.3	.0	.3	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	14	8
>13	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	3	19
INDET	1.4	.8	.0	.3	.8	.3	.8	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	5
TOTAL	10	19	69	57	52	51	42	20	17	5	1	4	5	2	.6	.0	.0	.0	.0	356	7
PCT	2.8	5.3	19.4	16.0	14.6	14.3	11.8	5.6	4.8	1.4	.3	1.1	1.4	.6	.6	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1863-1972

JULY

TABLE 1

AREA 0005 BRISBANE
26.75 153.4E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA	
N	6.6	6.6	3.3	.0	.0	.0	.0	16.5	3.3	.0	.9	.0	.0	.0	79.2	
NE	9.1	9.8	3.5	.0	.0	.0	.0	22.4	11.9	.0	4.2	.0	.0	.0	61.5	
E	16.8	3.9	6.4	.0	.0	.0	.0	27.1	5.4	2.9	1.4	.0	.0	.0	64.6	
SE	6.8	8.8	1.8	.0	.0	.0	.0	17.4	2.8	4.2	.0	.0	.0	.0	78.8	
S	1.0	7.4	.8	.0	.0	.0	.0	9.2	1.1	1.1	.0	.0	.7	.0	87.9	
SW	3.8	2.3	.0	.0	.0	.0	.0	6.0	.0	.4	.9	.0	1.7	.0	91.0	
W	1.1	.0	.0	.0	.0	.0	.0	1.1	.0	1.1	.8	.0	.8	.0	96.3	
NW	3.0	.0	2.4	.0	.0	.0	.0	5.4	.0	.6	.0	.0	.0	.0	94.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	4.8	4.8	.0	.0	.0	.0	.0	9.5	.0	7.1	4.8	.0	2.4	.0	76.2	
TOT PCT	4.9	4.7	1.6	.0	.0	.0	.0	11.3	1.9	1.8	.9	.0	.6	.0	84.2	
TOT OBS:	789															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THWR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00603	3.0	4.9	1.2	.0	.0	.0	.0	9.1	1.2	.0	2.4	.0	.0	.0	87.2
06609	3.1	6.7	1.3	.0	.0	.0	.0	11.2	.4	.4	.0	.0	.4	.0	87.4
12615	5.9	4.3	1.6	.0	.0	.0	.0	11.9	4.3	2.2	.0	.0	.0	.0	82.7
18621	6.8	2.8	2.8	.0	.0	.0	.0	12.4	1.6	3.6	1.6	.0	1.6	.0	80.3
TOT PCT TOT OBS:	4.9	4.6	1.8	.0	.0	.0	.0	11.3	1.8	1.7	1.0	.0	.6	.0	84.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	1.0	4.1	1.1	.3	.4	.0		6.5	8.5	6.3	5.0	6.3	8.2	7.3	8.0	7.2	3.7		
NE	.9	2.7	1.5	.3	.1	.0		5.4	9.7	1.4	2.3	4.1	10.9	5.9	6.9	6.6	3.3		
E	.5	3.8	3.1	1.2	.8	.2		9.5	15.7	12.0	6.4	11.1	7.8	16.0	8.9	10.4	6.7		
SE	1.6	6.5	4.9	1.8	.3	.0		15.1	11.9	14.1	11.4	18.2	19.4	21.1	14.4	12.6	12.7		
S	.8	7.5	8.3	2.1	.2	.1		19.1	13.1	28.5	22.5	24.0	15.0	15.4	12.9	18.7	19.0		
SW	1.6	7.2	8.0	.8	.2	.1		17.9	11.6	18.2	20.8	19.0	10.2	12.6	19.8	18.3	26.3		
W	1.0	5.7	4.2	.4	.1	.0		11.4	10.4	9.8	13.1	10.2	9.9	16.0	12.1	11.6	10.0		
NW	1.1	6.2	2.1	.4	.1	.0		9.9	9.1	8.7	13.1	7.2	7.8	3.4	11.5	9.1	15.7		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	5.1							5.1	.0	1.1	5.4	3.8	10.9	2.2	5.5	6.2	2.7		
TOT OBS	167	538	410	91	22	5	1233		11.0	92	149	183	147	89	182	241	150		
TOT PCT	13.5	43.6	33.3	7.4	1.8	.4		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	41+				00	06	12	18
									03	09	15	21
N	3.2	2.5	.8	.4	.0		6.5	8.5	5.5	7.1	7.7	5.8
NE	2.3	2.3	.6	.2	.0		5.4	9.7	2.0	7.1	6.5	5.4
E	2.1	4.3	1.4	1.3	.4		9.5	15.7	8.5	9.6	11.3	9.0
SE	4.5	7.0	2.5	.9	.1		15.1	11.9	12.4	18.7	16.6	12.6
S	4.0	9.5	4.7	.7	.2		19.1	13.1	24.8	20.0	13.7	18.4
SW	5.0	8.7	3.8	.4	.1		17.9	11.6	19.8	12.9	17.4	21.4
W	3.6	6.1	1.6	.2	.0		11.4	10.4	11.8	10.1	13.4	11.0
NW	3.9	4.9	.9	.2	.0		9.9	9.1	11.4	7.5	8.9	11.6
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	5.1						5.1	.0	3.7	7.0	4.4	4.9
TOT OBS	417	558	200	48	10	1233		11.0	241	330	271	391
TOT PCT	33.8	45.3	16.2	3.9	.8		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1863-1972

JULY

AREA 0005 BRISBANE
26.75 153.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	3.7	7.9	39.8	37.8	7.5	2.9	.4	11.9	100.0	241
06009	7.0	9.1	40.9	33.9	7.6	.9	.6	10.7	100.0	330
12015	4.4	8.1	47.6	29.5	7.7	2.2	.4	11.0	100.0	271
18021	4.9	8.4	45.5	32.5	6.9	1.5	.3	10.8	100.0	391
TOT	63	104	538	410	91	22	.5	11.0		1233
PCT	5.1	8.4	43.6	33.3	7.4	1.8	.4		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	1.8	1.7	1.6	2.1		4.7
NE	.5	.5	2.0	1.2		5.6
E	1.2	.7	3.8	5.5		6.5
SE	6.7	2.3	9.5	3.1		4.2
S	11.0	7.2	9.0	1.4		3.0
SW	11.3	3.0	.8	.7		1.6
W	7.1	1.5	1.6	.3		2.1
NW	1.7	1.6	1.8	.9		4.1
VAR	.0	.0	.0	.0		.0
CALM	2.0	.7	.3	.0		2.8
TOT OBS	129	57	67	45	298	3.6
TOT PCT	43.3	19.1	22.5	15.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIRECTION											
000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.7	.0	.3	.6	.6	.0	.9	.0	.0	.0	4.1	
.0	.3	.4	.8	.0	.3	.0	.0	.0	.0	2.3	
.0	.0	.3	3.9	3.1	.0	.0	.0	.0	.0	3.8	
.0	.0	.0	1.6	3.4	1.2	.0	.0	.0	.1	11.3	
.0	.0	.0	1.5	2.2	1.4	.0	.0	.0	.3	19.3	
.0	.0	.0	.3	.7	.4	.0	.0	.0	.0	14.4	
.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	9.1	
.0	.0	.0	.1	.5	.0	.4	.0	.3	.3	4.4	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	2.7	
2	1	3	26	35	10	4	0	1	3	213	298
.7	.3	1.0	6.7	11.7	3.4	1.3	.0	.3	1.0	71.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
>5000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
>3500	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
>2000	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
>1000	13.9	16.2	16.6	17.5	17.5	17.5	17.5	17.5
>600	20.2	21.2	22.5	24.8	25.8	26.2	26.2	26.2
>300	20.2	21.9	23.5	25.8	26.8	27.2	27.2	27.2
>150	20.2	21.9	23.5	26.2	27.2	27.5	27.5	27.5
>0	20.2	21.9	23.8	26.8	27.8	28.1	28.1	28.1
TOTAL	61	66	72	81	84	85	85	85

TOTAL NUMBER OF OBS: 302

PCT FREQ NH <5/8: 71.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
17.3	17.6	15.7	12.3	7.7	7.1	6.8	7.4	8.0	.0	324

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1863-1972

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.3	
1/2<1	PCP	.0	.1	.4	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.1	.2	.1	.0	.0	.1	.0	.0	.0	.0	.3	
	TOT %	.1	.3	.6	.0	.0	.1	.0	.0	.0	.0	.3	
1<2	PCP	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.1	.1	.5	.0	.0	.3	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.9	.0	.0	.3	.0	.0	.0	.0	.1	
2<5	PCP	.1	.1	.1	.3	.0	.0	.1	.0	.0	.0	.6	
	NO PCP	.0	.1	.1	.2	.2	.0	.1	.0	.0	.0	.6	
	TOT %	.1	.2	.2	.3	.2	.0	.1	.1	.0	.0	.1	
5<10	PCP	.8	.9	.9	2.2	1.3	.6	.1	.4	.0	.3	7.5	
	NO PCP	3.2	1.4	1.9	5.5	7.3	7.9	7.5	7.1	.0	2.8	44.6	
	TOT %	3.9	2.3	2.8	7.7	8.6	8.6	7.6	7.5	.0	3.0	52.1	
10+	PCP	.2	.0	.5	.3	.5	.3	.0	.1	.0	.0	1.8	
	NO PCP	2.2	1.7	3.8	7.6	10.1	7.5	4.2	2.8	.0	1.6	41.6	
	TOT %	2.5	1.7	4.2	7.9	10.6	7.8	4.2	2.9	.0	1.6	43.3	
TOT OBS													789
TOT PCT		6.7	4.5	8.9	15.9	19.4	16.8	12.0	10.5	.0	5.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	.3	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.1	.0	.1	.1	.0	.0	.0	.2	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	.3	
	4-10	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.1	.4	.0	.0	.0	.0	.0	.0	.0	.4	
	TOT %	.1	.2	.5	.0	.0	.1	.0	.0	.0	.2	1.1	
1<2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.2	
	4-10	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2	
	22+	.1	.0	.8	.0	.0	.0	.0	.0	.0	.0	.9	
	TOT %	.1	.1	.8	.2	.0	.2	.0	.0	.0	.1	1.6	
2<5	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	4-10	.1	.0	.0	.1	.4	.1	.3	.1	.0	.0	1.0	
	11-21	.0	.2	.1	.1	.2	.1	.0	.1	.0	.0	.8	
	22+	.0	.0	.3	.3	.0	.0	.0	.0	.0	.0	.6	
	TOT %	.1	.2	.4	.4	.6	.3	.3	.2	.0	.0	2.4	
5<10	0-3	.9	.4	.3	.9	.4	.4	.7	.7	.0	3.1	8.0	
	4-10	1.9	.7	.7	2.3	2.9	3.7	3.0	4.3	.0	.0	19.4	
	11-21	.6	1.0	.9	2.3	3.1	2.9	2.8	1.6	.0	.0	15.2	
	22+	.0	.1	1.1	1.5	1.3	.5	.2	.0	.0	.0	4.5	
	TOT %	3.4	2.1	3.0	7.0	7.6	7.6	6.7	6.6	.0	3.1	47.1	
10+	0-3	.2	.2	.1	.6	.4	.8	.3	.7	.0	2.0	5.3	
	4-10	1.9	1.4	2.4	4.4	4.1	2.9	2.7	2.1	.0	.0	21.9	
	11-21	.6	.1	1.6	3.0	3.5	4.2	1.6	.7	.0	.0	17.1	
	22+	.3	.0	.1	.8	.8	.5	.2	.3	.0	.0	3.0	
	TOT %	2.9	1.7	4.2	8.8	10.8	8.4	4.7	3.8	.0	2.0	47.7	
TOT OBS													903
TOT PCT		6.6	4.4	8.9	16.4	19.1	16.7	11.7	10.5	.0	5.6	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00&03	2.2	.0	1.1	4.5	13.5	4.5	2.2	.0	1.1	1.1	30.3	69.7	89
06&09	.0	.0	1.4	10.8	10.8	4.1	1.4	.0	.0	.0	28.4	71.6	74
12&15	.0	.0	1.2	8.4	7.2	2.4	1.2	.0	.0	.0	20.5	79.5	83
18&21	.0	1.5	.0	10.3	13.2	1.5	.0	.0	.0	2.9	29.4	70.6	68
TOT	2	1	3	26	35	10	4	0	1	3	85	229	314
PCT	.6	.3	1.0	8.3	11.1	3.2	1.3	.0	.3	1.0	27.1	72.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00&03	.6	2.3	1.8	2.9	39.2	53.2	171
06&09	.4	1.2	1.5	1.2	53.7	42.1	259
12&15	.0	.0	.9	2.8	41.3	54.9	213
18&21	1.0	1.4	1.7	2.7	53.4	39.7	292
TOT	5	11	14	22	450	433	935
PCT	.5	1.2	1.5	2.4	48.1	46.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500D	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00&03	2.3	4.7	11.6	22.1	66.3	86
06&09	.0	2.8	14.1	15.5	70.4	71
12&15	.0	1.3	12.7	8.9	78.5	79
18&21	.0	4.5	13.6	18.2	68.2	66
TOT	2	10	39	49	214	302
PCT	.7	3.3	12.9	16.2	70.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.0	.0	.2	.0	1	.2
70/74	.0	.0	.2	1.0	1.6	2.0	.7	1.8	44	7.2
65/69	.0	.3	1.6	8.2	12.6	11.7	12.2	7.0	329	53.7
60/64	.0	.7	2.1	3.8	6.7	5.9	5.2	3.8	172	28.1
55/59	.0	.0	.3	1.5	1.5	1.3	2.0	.7	44	7.2
50/54	.0	.0	.0	.2	.3	.0	1.5	.2	13	2.1
45/49	.0	.0	.2	.0	.0	.2	.5	.8	10	1.6
TOTAL	0	6	27	89	139	129	136	87	613	100.0
PCT	.0	1.0	4.4	14.5	22.7	21.0	22.2	14.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2
70/74	1.0	.9	.9	.8	1.1	.7	.7	.6	.0	.5
65/69	4.3	3.5	6.8	11.0	9.3	5.8	4.1	4.9	.0	3.9
60/64	1.1	.4	.5	3.2	7.5	7.9	4.2	2.4	.0	.8
55/59	.0	.0	.0	.2	1.1	3.1	1.9	.2	.0	.7
50/54	.0	.0	.0	.0	.0	.2	.8	.4	.0	.7
45/49	.0	.0	.0	.0	.3	.8	.0	.0	.0	.5
TOTAL	6.4	4.9	8.3	15.2	19.5	18.6	11.6	8.4	.0	7.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00&03	80	75	71	66	59	57	56	65.7	240
06&09	73	72	70	65	59	56	55	65.2	333
12&15	72	70	69	65	57	54	52	64.0	280
18&21	72	71	68	64	54	47	45	63.2	395
TOT	80	72	70	65	57	50	45	64.4	1248

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00&03	.0	17.2	28.7	26.2	20.5	7.4	71	122
06&09	.0	23.0	24.2	19.4	23.0	10.3	71	165
12&15	.0	22.5	21.2	19.2	22.5	14.6	72	151
18&21	.0	16.0	18.0	21.5	23.0	21.5	76	200
TOT	0	125	143	136	143	91	73	638

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	M FOG	NO FOG
9/10	.0	.0	.0	.0	.0	.3	.0	2	.0	.3
7/8	.0	.0	.0	.0	.3	.1	.1	4	.0	.6
6	.0	.0	.0	.0	.4	.1	.0	4	.0	.6
5	.0	.0	.0	.1	.3	.0	.4	6	.0	.8
4	.0	.0	.0	.0	.4	.6	.0	7	.0	1.0
3	.0	.0	.0	.1	.7	.4	.0	9	.0	1.3
2	.0	.0	.0	.0	.7	1.1	.1	14	.0	2.0
1	.0	.0	.1	.3	1.4	2.5	.0	31	.0	4.4
0	.0	.0	.4	.6	3.5	1.6	.0	43	.4	5.7
-1	.0	.0	.4	1.0	3.5	1.8	.0	48	.0	6.8
-2	.0	.0	.0	1.8	9.8	1.4	.0	92	.3	12.7
-3	.0	.3	.3	2.8	8.9	1.3	.1	97	.1	13.6
-4	.0	.4	.4	3.7	9.3	.4	.0	101	.1	14.2
-5	.0	.1	.4	2.7	5.8	.3	.0	66	.0	9.3
-6	.0	.1	.8	3.7	1.8	.1	.0	47	.0	6.7
-7/-8	.3	.0	1.6	5.5	1.1	.1	.0	61	.1	8.5
-9/-10	.1	.6	3.4	2.5	.3	.0	.0	49	.0	6.9
-11/-13	.1	1.0	1.3	.3	.0	.0	.0	19	.0	2.7
-14/-16	.0	.0	.3	.3	.0	.0	.0	4	.0	.6
-17/-19	.0	.1	.1	.0	.0	.0	.0	2	.0	.3
TOTAL	4	19	68	180	342	87	6	706	8	698
PCT	.6	2.7	9.6	23.5	48.4	12.3	.8	100.0	1.1	98.9

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	2.3	.0	.0	.0	.0	.0	2.3	.4	.1	.0	.0	.0	.0	.0	.5
1-2	.0	1.9	.3	.0	.0	.0	.0	2.2	.0	1.4	.0	.0	.0	.0	.0	1.4
3-4	.0	.7	.0	.0	.0	.0	.0	.7	.0	1.2	.6	.0	.0	.0	.0	1.8
5-6	.0	.0	.4	.4	.0	.0	.0	1.0	.0	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.4	.4	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	4.9	1.3	.8	.0	.0	.0	7.0	.4	2.7	.7	.0	.0	.0	.0	3.8

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.4	.0	.0	.0	.0	.0	.4	.0	1.3	.0	.0	.0	.0	.0	1.3
1-2	.4	1.3	.8	.0	.0	.0	.0	2.7	.1	5.7	1.4	.0	.0	.0	.0	7.2
3-4	.0	2.0	1.5	.0	.0	.0	.0	3.5	.0	.9	3.4	.0	.0	.0	.0	4.3
5-6	.0	.0	1.4	.0	.0	.0	.0	1.4	.0	.1	2.2	.1	.0	.0	.0	2.4
7	.0	.0	.7	.0	.4	.0	.0	1.1	.0	.0	1.3	.4	.0	.0	.0	1.7
8-9	.0	.0	.4	.4	.0	.0	.0	.8	.0	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.9	4.8	.4	.4	.0	.0	9.9	.1	8.0	8.4	.5	.8	.0	.0	17.9

PERIOD: (OVER-ALL) 1963-1972

JULY

AREA 0005 BRISBANE
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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.7	.6	.0	.0	.0	.0	1.3	.5	1.4	.4	.0	.0	.0	2.3	
1-2	.3	5.6	2.5	.0	.0	.0	8.4	.8	2.1	1.0	.0	.0	.0	3.9	
3-4	.4	.6	6.7	.4	.0	.0	8.1	.0	.6	4.2	.0	.0	.0	4.8	
5-6	.0	.3	4.3	.6	.0	.0	5.2	.0	.4	3.4	.9	.0	.0	4.7	
7	.0	.0	.3	.4	.0	.0	.7	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.3	.4	.0	.0	.7	.0	.0	.4	.0	.0	.0	.4	
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.4	.4	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	1.3	4.5	9.5	1.0	.4	.0	16.8	
TOT PCT	1.4	7.1	14.6	2.5	.0	.0	25.6								

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.4	.6	.0	.0	.0	.0	1.0	.0	.3	.0	.0	.0	.0	.5		
1-2	.0	3.7	1.0	.0	.0	.0	4.7	.0	1.7	.6	.0	.0	.0	2.7		
3-4	.0	1.1	2.3	.0	.0	.0	3.4	.0	.1	1.3	.0	.0	.0	1.4		
5-6	.0	.3	1.5	.4	.0	.0	2.2	.0	.1	.5	.0	.0	.0	.6		
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.4	5.7	4.8	.4	.0	.0	11.3	.4	2.4	2.4	.0	.0	.0	5.2	97.6	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.1	7.5	.4	.0	.0	.0	13.0	
1-2	2.0	23.3	7.5	.0	.0	.0	32.8	
3-4	.4	7.1	19.8	.4	.0	.0	27.7	
5-6	.0	1.2	13.8	2.4	.0	.0	17.4	
7	.4	.0	2.8	1.2	.4	.0	4.7	
8-9	.0	.0	1.2	.8	.0	.0	2.0	
10-11	.0	.0	.0	.4	.8	.0	1.2	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.4	.4	.0	.0	.8	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.4	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.9	39.1	45.8	5.5	1.6	.0	100.0	253

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.3	8.4	12.0	6.1	2.3	.6	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	3
6-7	.3	2.6	6.5	12.0	6.5	2.6	1.0	.0	1.3	.6	.0	1.0	.0	.0	.0	.0	.0	.0	.0	106	5
8-9	.0	.6	1.6	4.2	4.9	3.6	1.3	1.0	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	7
10-11	.0	.0	.0	2.6	1.0	.6	.6	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	18	8
12-13	.0	.0	.0	.6	.0	.0	.3	.0	.0	.0	1.0	.3	.0	.0	.0	.0	.0	.0	.0	7	15
>13	.0	.0	.0	.0	.3	.0	.0	.0	.6	.3	.0	1.0	.3	.0	.0	.0	.0	.0	.0	8	24
INDET	1.3	.3	.6	1.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	3
TOTAL	12	37	64	82	48	23	11	4	9	5	5	4	3	1	0	0	0	0	0	309	6
PCT	3.9	12.0	20.7	26.9	15.5	7.4	3.6	1.3	2.9	1.6	1.6	1.3	1.0	.3	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1860-1972

AUGUST

AREA 0005 BRISBANE
26.65 153.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	4.4	1.0	3.4	.0	.0	.0	.0	8.8	1.0	.0	1.0	.0	.9	.0	88.7
NE	7.4	6.9	1.0	.0	.0	.0	.0	15.3	2.0	.0	3.0	.0	2.0	.0	77.8
E	3.2	7.8	1.2	.0	.0	.0	1.2	13.3	.0	2.3	2.9	.0	.0	.0	82.7
SE	5.6	17.4	.0	.0	.0	.0	.0	22.9	2.8	.0	.0	.0	.0	.0	74.3
S	3.9	7.2	.0	.0	.0	.0	.0	11.0	1.8	.0	.4	.0	.0	.0	86.9
SW	1.3	3.4	.0	.0	.0	.0	.0	4.7	1.3	1.8	.4	.0	.9	.0	90.8
W	5.5	1.5	.0	.0	.0	.0	.0	7.0	.0	.0	.0	.0	1.5	.0	91.6
NW	1.9	1.3	.3	.0	.0	.0	.0	3.5	.0	.0	.0	.0	3.2	.0	93.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	4.5	.0	.0	.0	.0	.0	4.5	.0	4.5	.0	.0	4.5	.0	86.4
TOT PCT TOT OBS:	3.8 765	6.1	.7	.0	.0	.0	.1	10.7	1.2	.7	.8	.0	.9	.0	85.9

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	2.7	5.4	1.4	.0	.0	.0	.0	9.5	2.7	.0	.7	.0	2.0	.0	85.1
06009	3.7	4.2	.5	.0	.0	.0	.5	8.9	.9	.0	.0	.0	.5	.0	89.7
12015	5.0	7.2	.6	.0	.0	.0	.0	12.7	.0	1.1	.6	.0	.6	.0	85.1
18021	3.6	6.9	.4	.0	.0	.0	.0	10.9	1.2	1.2	1.6	.0	1.2	.0	84.3
TOT PCT TOT OBS:	3.8 791	5.9	.6	.0	.0	.0	.1	10.5	1.1	.6	.8	.0	1.0	.0	86.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	1.1	7.3	4.9	1.0	.1	.0		14.3	10.9	8.0	8.2	14.4	21.1	17.4	16.2	14.8	10.7
NE	1.1	4.7	1.6	.0	.0	.0		7.4	8.1	9.6	4.3	10.4	11.8	8.2	9.2	4.4	2.2
E	1.1	5.4	3.0	.2	.0	.0		9.9	9.4	10.6	10.0	11.7	8.8	19.5	9.5	8.3	4.5
SE	.6	6.0	5.9	.5	.2	.0		13.2	11.5	11.2	10.0	16.7	16.0	11.6	14.2	12.2	10.7
S	.6	6.9	8.4	1.9	.2	.0		18.0	12.9	19.2	22.9	21.4	18.3	14.3	15.0	14.9	18.8
SW	.6	5.2	6.7	1.3	.0	.0		13.8	12.8	23.7	17.9	6.9	6.2	7.3	10.7	17.0	25.9
W	1.0	3.9	2.8	.6	.0	.0		8.3	10.2	6.7	7.5	5.4	6.9	5.5	11.0	10.7	9.4
NW	.6	6.5	4.2	.6	.0	.0		11.9	10.2	9.6	15.0	11.4	8.3	7.6	11.8	13.0	16.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.3							3.3	.0	1.3	4.3	1.7	2.6	8.5	2.3	4.7	1.8
TOT OBS	116	530	432	70	5	0	1153		10.8	78	140	180	133	82	173	235	112
TOT PCT	10.1	46.0	37.5	6.1	.4	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	3.6	7.9	2.8	.1	.0		14.3	10.9	8.1	17.5	16.6	13.5	
NE	3.1	3.9	.4	.0	.0		7.4	8.1	6.2	11.0	8.9	3.7	
E	3.4	5.2	1.3	.0	.0		9.9	9.4	10.2	10.4	12.7	7.1	
SE	2.5	8.2	2.2	.3	.0		13.2	11.5	10.4	16.4	13.3	11.7	
S	3.8	9.2	4.0	.9	.1		18.0	12.9	21.6	20.0	14.8	16.1	
SW	2.0	7.3	4.4	.1	.0		13.8	12.8	20.0	6.6	9.6	19.9	
W	3.0	3.7	1.3	.2	.0		8.3	10.2	7.2	6.1	9.2	10.3	
NW	4.1	6.0	1.6	.2	.0		11.9	10.2	13.1	10.0	10.5	14.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.3						3.3	.0	3.2	2.1	4.3	3.7	
TOT OBS	331	593	208	20	1	1153		10.8	218	333	255	347	
TOT PCT	28.7	51.4	18.0	1.7	.1		100.0		100.0	100.0	100.0	100.0	

AUGUST

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1860-1972AREA 0005 BRISBANE
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	3.2	5.5	44.0	41.3	6.0	.0	.0	.0	11.1	100.0	218
06009	2.1	9.0	49.8	33.6	4.8	.6	.0	.0	10.3	100.0	333
12015	4.3	6.7	45.9	34.9	8.2	.0	.0	.0	10.7	100.0	255
18021	3.7	5.5	43.5	40.6	5.8	.9	.0	.0	11.1	100.0	347
TOT	38	78	530	432	70	5	0	10.8			1153
PCT	3.3	6.8	46.0	37.5	6.1	.4	.0		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	7.1	1.1	3.4	2.8		3.7
NE	2.5	.7	3.1	3.1		5.3
E	4.2	3.3	4.9	2.5		4.6
SE	4.8	4.1	3.1	.9		3.6
S	6.9	4.9	3.2	1.5		3.1
SW	7.9	2.0	2.4	.5		2.3
W	6.8	.9	.4	.0		.9
NW	3.8	.4	1.3	1.3		3.6
VAR	.0	.0	.0	.0		.0
CALM	3.6	.0	.4	.4		1.5
TOT OBS	132	48	61	36	277	3.4
TOT PCT	47.7	17.3	22.0	13.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	2.0	2.5	.4	.4	.0	.0	.3	8.9	
NE	.0	.0	.7	1.6	2.1	.8	.4	.0	.0	.1	3.7	
E	.0	.0	.0	2.3	1.3	1.3	.4	.0	.0	.0	9.8	
SE	.0	.0	.0	.5	.9	.1	1.1	.0	.0	.0	10.3	
S	.0	.0	.0	.0	2.0	.8	.3	.0	.0	.0	13.4	
SW	.0	.0	.0	.7	1.2	.6	.1	.0	.0	.0	10.3	
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	
NW	.0	.0	.4	.5	.5	.4	.0	.0	.0	.0	4.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	4.0	
TOT OBS	0	0	3	21	29	13	7	0	0	1	203	277
TOT PCT	.0	.0	1.1	7.6	10.5	4.7	2.5	.0	.0	.4	73.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			VSBY (NM)			VSBY (NM)		
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >30YD	= OR >0	
= OR >4500	.4	.4	.4	.4	.4	.4	.4	.4	
= OR >4000	.4	.4	.4	.4	.4	.4	.4	.4	
= OR >3500	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	
= OR >3000	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	
= OR >2000	15.3	17.3	18.0	18.0	18.0	18.0	18.0	18.0	
= OR >1000	21.5	24.3	25.4	25.4	25.4	25.4	25.4	25.4	
= OR >600	21.8	25.4	26.4	26.4	26.4	26.4	26.4	26.4	
= OR >300	21.8	25.4	26.4	26.4	26.4	26.4	26.4	26.4	
= OR >150	21.8	25.4	26.4	26.4	26.4	26.4	26.4	26.4	
= OR >0	21.8	25.4	26.4	26.4	26.4	26.4	26.4	26.4	
TOTAL	62	72	75	75	75	75	75	75	

TOTAL NUMBER OF OBS: 284

PCT FREQ NH <5/8: 73.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
20.8	18.9	14.0	10.7	9.1	5.5	5.5	9.4	5.9	.0	307

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1860-1972

AUGUST

AREA 0005 BRISBANE
26.65 153.4E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.2	.2	.0	.1	.1	.1	.0	.0	.0	.8	.8
	TOT %	.1	.2	.2	.0	.1	.1	.1	.0	.0	.0	.8	.8
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.1	.0	.0	.0	.0	.1	.3	.0	.0	.7	.7
	TOT %	.1	.1	.0	.0	.0	.0	.1	.3	.0	.0	.7	.7
2<5	PCP	.1	*	.0	.0	.1	*	.0	.0	.0	.0	.3	.3
	NO PCP	.1	.1	.0	.0	.0	.0	.0	*	.0	.0	.3	.3
	TOT %	.2	.2	.0	.0	.1	*	.0	*	.0	.0	.5	.5
5<10	PCP	.8	.5	1.3	2.9	1.7	.4	.6	.2	.0	.1	8.5	8.5
	NO PCP	5.9	2.3	4.2	5.3	9.2	6.5	4.2	5.8	.0	.7	44.1	44.1
	TOT %	6.7	2.8	5.5	8.2	10.9	6.9	4.8	5.9	.0	.8	52.5	52.5
10+	PCP	.2	.5	.2	.3	.3	.3	.0	.2	.0	.0	2.0	2.0
	NO PCP	5.4	2.8	5.3	5.6	7.3	7.3	3.9	3.7	.0	2.1	43.4	43.4
	TOT %	5.6	3.4	5.5	5.9	7.6	7.5	3.9	3.9	.0	2.1	45.4	45.4
TOT OBS													765
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.2	.2	.0	.1	.1	.1	.0	.0	.0	.7	.7
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.2	.2	.0	.1	.1	.1	.0	.0	.0	.7	.7
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.0	.0	.0	.0	.0	.2	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.2	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.1	.0	.0	.0	.0	.1	.3	.0	.0	.6	.6
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.1	.0	.0	.0	.1	*	.0	*	.0	.0	.2	.2
	TOT %	.2	.1	.0	.0	.1	*	.0	*	.0	.0	.5	.5
5<10	0-3	.6	.7	.5	.4	.2	.2	.3	.2	.0	.8	4.2	4.2
	4-10	3.1	1.8	2.3	3.0	2.9	2.1	1.7	3.0	.0	.0	19.7	19.7
	11-21	1.9	.4	2.2	3.9	5.9	3.1	1.9	2.0	.0	.0	21.3	21.3
	22+	.6	*	.3	.5	1.5	1.0	.3	.1	.0	.0	4.3	4.3
	TOT %	6.2	2.8	5.3	7.7	10.5	6.3	4.4	5.4	.0	.8	49.5	49.5
10+	0-3	.7	.2	.6	.4	.2	.3	.8	.3	.0	2.4	5.9	5.9
	4-10	3.5	2.2	3.4	3.0	3.8	3.4	2.0	2.1	.0	.0	23.3	23.3
	11-21	1.9	1.2	1.9	2.7	2.7	3.3	1.2	1.9	.0	.0	16.9	16.9
	22+	.3	*	.0	.1	.9	.6	.3	.1	.0	.0	2.4	2.4
	TOT %	6.5	3.6	5.9	6.2	7.6	7.6	4.3	4.3	.0	2.4	48.4	48.4
TOT OBS													836
TOT PCT													100.0
TOT PCT													100.0

AUGUST

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1860-1972AREA 0005 BRISBANE
26.6S 153.4E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	1.3	9.3	16.0	4.0	1.3	.0	.0	.0	32.0	68.0	75
06009	.0	.0	1.6	3.3	6.6	4.9	4.9	.0	.0	.0	21.3	78.7	61
12015	.0	.0	1.2	6.0	9.5	2.4	2.4	.0	.0	.0	21.4	78.6	84
18021	.0	.0	.0	8.6	7.4	6.2	1.2	.0	.0	1.2	24.7	75.3	81
TOT	0	0	3	21	30	13	7	0	0	1	75	226	301
PCT	.0	.0	1.0	7.0	10.0	4.3	2.3	.0	.0	.3	24.9	75.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.6	.0	.6	.0	41.7	57.1	156
06009	.4	.0	.4	.4	58.6	40.2	239
12015	.0	.5	.5	1.0	49.1	55.0	202
18021	.0	1.9	1.1	.4	52.5	44.2	265
TOT	2	6	6	4	431	413	862
PCT	.2	.7	.7	.5	50.0	47.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <300D	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	1.4	11.4	22.9	65.7	70
06009	.0	1.7	6.9	15.5	77.6	98
12015	.0	1.3	8.9	13.9	77.2	79
18021	.0	.0	9.1	16.9	74.0	77
TOT	0	3	26	49	209	284
PCT	.0	1.1	9.2	17.3	73.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.4	.2	.2	.0	.0	5	.9
70/74	.0	.2	1.1	.4	2.8	3.8	1.7	1.9	63	11.9
65/69	.0	.2	2.3	4.7	9.2	11.3	14.0	6.2	234	47.9
60/64	.0	.2	2.1	2.5	7.9	8.1	6.4	3.4	162	30.6
55/59	.0	.2	1.1	1.5	1.7	.9	.8	.8	37	7.0
50/54	.0	.0	.0	.0	.9	.4	.0	.4	9	1.7
TOTAL	0	4	35	51	121	131	121	67	530	100.0
PCT	.0	.8	6.6	9.6	22.8	24.7	22.8	12.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.2	.4	.1	.2	.0	.0	.0	.1	.0	.0
70/74	1.4	1.7	2.5	1.7	1.3	.4	1.1	1.3	.0	.4
65/69	3.1	4.4	6.9	3.8	7.8	4.1	3.5	5.5	.0	1.7
60/64	2.6	.9	.6	3.5	8.6	6.9	3.4	2.9	.0	1.1
55/59	.2	.0	.0	.0	1.0	2.8	2.0	.8	.0	.2
50/54	.0	.0	.0	.0	.3	.8	.6	.0	.0	.0
TOTAL	12.5	7.5	10.0	11.3	19.1	15.0	10.6	10.6	.0	3.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	78	75	72	66	59	57	55	66.1	209
06009	77	76	72	66	60	58	57	66.3	332
12015	72	71	70	65	59	55	53	65.0	260
18021	73	71	69	64	56	52	51	63.8	350
TOT	78	73	71	65	58	55	51	65.2	1151

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	23.8	21.8	25.7	19.8	8.9	70	101
06009	.0	17.9	24.1	21.4	20.7	15.9	73	145
12015	.0	13.4	20.9	30.6	23.9	11.2	74	134
18021	.0	13.3	22.5	22.5	26.6	15.0	75	173
TOT	0	91	124	137	128	73	73	553

AUGUST

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1860-1972

TABLE 17

AREA 0005 BRISBANE
26.65 153.4EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.2	.0	1	.0	.2
9/10	.0	.0	.0	.0	.0	.3	.0	.0	2	.0	.3
7/8	.0	.0	.0	.0	.2	.2	.6	.0	6	.0	.9
6	.0	.0	.0	.0	.3	.8	.3	.0	9	.0	1.4
5	.0	.0	.0	.0	.3	.2	.2	.2	5	.0	.8
4	.0	.0	.0	.3	.2	.6	.5	.0	10	.0	1.5
3	.0	.0	.0	.3	2.5	.8	.0	.0	23	.0	3.5
2	.0	.0	.2	.9	2.0	.9	.2	.0	27	.2	4.0
1	.0	.2	.0	.9	3.5	3.4	.2	.0	53	.0	8.1
0	.0	.0	.2	.8	3.1	3.4	.5	.0	51	.0	7.8
-1	.0	.0	.2	1.7	6.0	2.9	.0	.0	70	.2	10.6
-2	.2	.0	.5	1.8	7.4	1.4	.0	.0	73	.2	11.1
-3	.0	.0	.3	3.1	6.3	1.1	.0	.0	70	.3	10.4
-4	.0	.2	.9	4.6	5.2	.6	.0	.0	75	.0	11.5
-5	.0	.2	1.2	3.5	3.7	.2	.0	.0	57	.0	8.8
-6	.0	.2	1.2	4.0	.8	.0	.0	.0	40	.0	6.1
-7/-8	.0	.5	2.0	3.5	1.8	.0	.0	.0	31	.0	7.8
-9/-10	.0	.2	1.5	.5	.0	.0	.0	.0	14	.0	2.2
-11/-13	.0	.6	.6	.3	.0	.0	.0	.0	10	.0	1.5
-14/-16	.2	.3	.0	.0	.0	.0	.0	.0	2	.0	.5
-17/-19	.2	.0	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	3	14	57	171	281	108	16	1	631	5	646
PCT	.5	2.2	8.8	26.3	43.2	16.6	2.5	.2	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.8	1.7	.0	.0	.0	.0	2.4	.2	.9	.0	.0	.0	.0	.0	1.1	.1
1-2	.3	2.4	1.1	.0	.0	.0	3.9	.6	1.1	1.0	.0	.0	.0	.0	2.7	.0
3-4	.0	1.4	2.4	.0	.0	.0	3.9	.0	2.5	2.4	.0	.0	.0	.0	5.0	.0
5-6	.0	.4	1.5	1.2	.0	.0	3.2	.0	.0	.6	.1	.0	.0	.0	.7	.0
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	6.0	5.5	1.2	.0	.0	13.8	.8	4.5	4.1	.1	.0	.0	.0	9.5	.0

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.8	2.1	.0	.0	.0	.0	2.9	.0	.2	.0	.0	.0	.0	.0	.2	.0
1-2	.4	4.0	.4	.0	.0	.0	4.9	.0	3.0	1.0	.0	.0	.0	.0	4.0	.0
3-4	.0	1.3	1.9	.0	.0	.0	3.2	.0	.6	3.0	.0	.0	.0	.0	3.5	.0
5-6	.0	.4	2.0	.3	.0	.0	2.8	.0	1.8	2.4	.0	.0	.0	.0	4.2	.0
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.2	.0	.0	.0	.0	.2	.0
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0	.1	.0
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.4	.0	.0	.0	.4	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.2	7.9	5.3	.3	.0	.0	14.7	.0	5.5	6.7	.4	.0	.0	.0	12.7	.0

PERIOD: (OVER-ALL) 1963-1977

AUGUST

AREA 0005 BRISBANE
26.65 153.4E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

	S							SW							
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	3.1	.0	.0	.0	.0	3.1	.6	1.2	.0	.0	.0	.0	1.8	
1-2	.0	3.8	.8	.0	.0	.0	4.5	.0	2.9	.1	.0	.0	.0	3.0	
3-4	.0	3.0	3.7	.0	.0	.0	6.6	.0	2.3	3.3	.0	.0	.0	5.6	
5-6	.0	.0	.8	.3	.0	.0	1.1	.0	.9	1.3	.6	.0	.0	2.8	
7	.0	.0	.8	.0	.0	.0	.8	.0	.0	.4	.0	.0	.0	.4	
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	9.8	6.0	.8	.0	.0	16.6	.6	7.3	5.2	1.4	.0	.0	14.5	

	M							NW							TOTAL
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	PCT
<1	.8	.9	.0	.0	.0	.0	1.7	.0	.1	.0	.0	.0	.0	.1	
1-2	.0	.4	.7	.0	.0	.0	1.1	.0	1.4	1.5	.0	.0	.0	3.0	
3-4	.0	.8	1.1	.0	.0	.0	1.9	.0	.0	1.2	.4	.0	.0	1.7	
5-6	.0	.4	1.3	.0	.0	.0	1.8	.0	.0	.7	.1	.0	.0	.8	
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	2.5	3.5	.3	.0	.0	7.2	.0	1.5	3.9	.7	.0	.0	6.1	95.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	9.1	10.0	.0	.0	.0	.0	19.1	
1-2	1.7	18.7	6.5	.0	.0	.0	27.0	
3-4	.0	11.7	18.7	.4	.0	.0	30.9	
5-6	.0	3.9	10.4	2.6	.0	.0	17.0	
7	.0	.0	3.0	.0	.0	.0	3.0	
8-9	.0	.0	.4	.4	.0	.0	.9	
10-11	.0	.0	.4	1.3	.0	.0	1.7	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	10.9	44.3	39.6	5.2	.0	.0	100.0	230

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.5	7.3	12.7	6.5	5.1	.0	2.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	101	4
6-7	.0	1.1	7.3	12.7	6.5	2.5	1.1	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	88	5
8-9	.0	1.1	3.6	4.4	3.6	1.5	3.6	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	52	6
10-11	.0	.4	.7	1.1	2.5	.7	.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	18	7
12-13	.0	.0	.7	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	8
>13	.0	.0	.0	.4	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	2
INDEX	1.5	.4	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	
TOTAL	11	28	70	70	54	13	20	3	6	0	0	0	0	0	0	0	0	0	0	275	
PCT	4.0	10.2	25.5	25.5	19.6	4.7	7.3	1.1	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1909-1970
(OVER-ALL) 1872-1970

SEPTEMBER

AREA 0005 BRISBANE
26.75 153.4E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
N	3.9	.4	.0	.0	.0	.0	.0	4.3	2.0	5.2	5.0	.0	.9	.7	84.5
NE	.0	1.8	.0	.0	.0	.0	.0	1.8	.0	.0	.9	.0	2.2	.0	95.1
E	5.5	14.1	.5	.0	.0	.0	.0	20.1	.0	1.0	.0	.0	1.0	.0	78.9
SE	3.4	15.6	2.0	.0	.0	.0	.0	20.9	.8	.8	2.0	.0	.8	.0	74.7
S	4.8	6.5	.0	.0	.0	.0	.0	11.3	2.7	5.5	.7	.0	2.7	.0	77.1
SW	7.6	1.9	.0	.0	.0	.0	.0	9.5	1.5	3.1	.0	.0	1.5	.0	84.4
W	2.8	3.2	.0	.0	.0	.0	.0	6.0	.0	.0	.0	.0	.0	.0	94.0
NW	5.2	1.6	.0	.0	.0	.0	.0	6.8	.3	2.9	5.7	.0	4.7	.0	80.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	.0	95.7
TOT PCT	4.1	6.0	.4	.0	.0	.0	.0	10.5	1.0	2.5	2.2	.0	1.8	.1	82.6
TOT OBS:	731														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG SNOW	NO SIG WEA
00003	2.8	6.3	.7	.0	.0	.0	.0	9.8	.0	.0	2.1	.0	4.9	.0	83.2
06009	3.6	7.1	.4	.0	.0	.0	.0	11.2	.9	.9	2.2	.0	2.2	.4	82.6
12015	2.8	2.8	.6	.0	.0	.0	.0	6.3	2.3	4.5	2.3	.0	.0	.0	85.8
18021	5.6	7.3	.4	.0	.0	.0	.0	13.3	.4	3.4	1.7	.0	.9	.0	81.1
TOT PCT	3.9	6.1	.5	.0	.0	.0	.0	10.4	.9	2.3	2.1	.0	1.8	.1	83.0
TOT OBS:	776														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.2	8.4	9.2	1.3	.0	.0		20.0	11.8	11.8	21.5	27.2	25.7	28.4	18.8	14.0	13.5	
NE	1.5	4.9	2.3	.8	.0	.0		7.7	8.1	2.8	9.4	9.9	14.3	7.9	12.2	6.3	4.6	
E	.8	6.9	3.7	.2	.0	.0		11.7	9.4	11.1	13.6	11.2	15.6	11.0	10.6	9.7	11.5	
SE	1.0	6.7	6.5	1.5	.4	.0		16.1	12.8	7.3	10.9	19.8	20.0	19.4	17.2	15.9	15.0	
S	.3	4.2	4.3	1.5	.2	.0		10.5	13.6	15.6	10.9	12.0	6.3	11.8	8.4	10.2	11.5	
SW	.3	4.2	4.0	.9	*	.0		9.4	12.2	23.3	11.6	6.7	3.3	4.2	5.0	12.4	12.7	
W	.7	4.0	1.7	.9	.0	.0		7.3	10.6	8.7	7.6	3.8	4.8	7.9	5.9	10.5	9.6	
NW	1.0	6.2	5.0	1.3	.0	.0		13.6	11.5	18.1	13.7	7.1	8.5	6.2	18.8	17.1	17.7	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.6							2.6	.0	1.4	.7	2.2	1.5	3.4	3.1	4.0	3.8	
TOT DBS	107	521	420	87	8	0	1143		11.1	72	151	179	135	89	160	227	130	
TOT PCT	9.4	45.6	36.7	7.6	.7	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	4.1	11.1	4.3	.5	.0		20.0	11.8	18.4	26.6	22.2	13.8
NE	4.1	4.0	.6	.0	.0		8.7	8.1	7.3	11.8	10.6	5.7
E	4.0	6.2	1.4	.0	.0		11.7	9.4	12.8	13.1	10.7	10.4
SE	3.1	8.5	3.8	.5	.2		16.1	12.8	9.8	19.9	18.0	15.5
S	1.4	6.1	2.6	.5	.0		10.5	13.6	12.4	9.6	9.6	10.7
SW	2.1	5.2	1.8	.2	.0		9.4	12.2	15.4	5.3	4.7	12.5
W	2.5	3.4	1.2	.2	.0		7.3	10.6	8.0	4.2	6.6	10.2
NW	3.4	7.0	2.8	.3	.0		13.6	11.5	15.1	7.7	14.3	17.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.6						2.6	.0	.9	1.9	3.2	3.9
TOT DBS	312	589	213	27	2	1143		11.1	223	314	249	357
TOT PCT	27.3	51.5	18.6	2.4	.2		100.0		100.0	100.0	100.0	100.0

SEPTEMBER

PERIOD: (PRIMARY) 1909-1970
(OVER-ALL) 1872-1970

AREA 0005 BRISBANE
26.75 153.4E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	.9	7.6	48.4	35.0	7.2	.9	.0	11.1	100.0	223
06009	1.9	6.1	44.3	39.8	7.3	.6	.0	11.3	100.0	314
12015	3.2	5.2	47.8	35.3	8.0	.4	.0	11.2	100.0	249
18021	3.9	7.8	43.4	36.1	7.8	.8	.0	11.0	100.0	337
TOT	30	77	321	420	87	8	0	11.1		1143
PCT	2.6	6.7	45.6	36.7	7.6	.7	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	10.7	4.6	5.5	1.5		3.0
NE	3.1	1.3	1.8	.4		3.0
E	4.1	3.7	2.5	.3		3.2
SE	5.2	4.4	3.1	1.3		3.4
S	6.6	3.0	2.4	1.3		3.0
SW	7.4	3.1	.8	1.2		2.3
W	6.4	.6	1.3	.0		1.4
NW	8.2	.6	.9	.0		1.1
VAR	.0	.0	.0	.0		.0
CALM	1.8	.4	.4	.0		2.0
TOT OBS	146	59	51	16	272	2.6
TOT PCT	53.7	21.7	18.8	5.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.4	.0	1.9	.6	.0	.0	.6	.0	18.7	
NE	.0	.0	.0	.0	.5	.5	.0	.4	.0	.0	5.3	
E	.0	.0	.0	.6	1.0	.4	.0	.0	.0	.0	8.5	
SE	.0	.0	.9	2.7	.4	.0	.0	.0	.0	.0	10.1	
S	.0	.0	.6	1.7	.4	.0	.0	.0	.0	.0	10.7	
SW	.0	.0	.7	.9	.0	.0	.0	.0	.0	.0	10.9	
W	.0	.0	.0	.7	.3	.0	.0	.0	.0	.0	7.4	
NW	.0	.0	.4	.0	.3	.0	.0	.0	.1	.0	8.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	2.2	
TOT OBS	0	2	10	26	6	0	1	2	0	225	272	
TOT PCT	.0	.0	.7	3.7	9.6	2.2	.0	.4	.7	.0	82.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.4	.7	.7	.7	.7	.7	.7	.7
= OR >5000	.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >3500	.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >2000	2.9	3.3	3.3	3.3	3.3	3.3	3.3	3.3
= OR >1000	9.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7
= OR >600	12.7	16.0	16.4	16.4	16.4	16.4	16.4	16.4
= OR >300	13.5	16.7	17.1	17.1	17.1	17.1	17.1	17.1
= OR >150	13.5	16.7	17.1	17.1	17.1	17.1	17.1	17.1
= OR >0	13.5	16.7	17.1	17.1	17.1	17.1	17.1	17.1
TOTAL	37	46	47	47	47	47	47	47

TOTAL NUMBER OF OBS: 275

PCT FREQ NM <5/8: 82.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	27.6	19.9	16.8	11.1	7.4	4.7	3.0	4.7	4.7	.0	297

SEPTEMBER

PERIOD: (PRIMARY) 1909-1970
(OVER-ALL) 1872-1970AREA 0005 BRISBANE
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.9	.0	.0	.3	.1	.0	.0	.8	.0	.0	2.1	
	TOT %	.9	.0	.0	.3	.2	.0	.0	.8	.0	.0	2.3	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.1	.1	.3	.0	.0	.5	.0	.1	1.2	
	TOT %	.1	.0	.1	.1	.3	.0	.0	.5	.0	.1	1.2	
2<5	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.0	.0	.0	.0	.0	.0	*	.0	.0	.1	
	TOT %	.1	.0	.0	.0	.1	.0	.0	*	.0	.0	.3	
5<10	PCP	.7	.0	2.4	3.1	.8	.9	.4	.9	.0	.0	9.2	
	NO PCP	7.6	4.4	5.9	7.3	3.6	3.1	2.5	5.9	.0	1.9	42.1	
	TOT %	8.3	4.4	8.3	10.5	4.3	3.9	2.9	6.8	.0	1.9	51.3	
10+	PCP	.1	.1	.2	.3	.1	.0	.0	.0	.0	.0	1.0	
	NO PCP	9.7	3.1	4.4	5.9	5.0	5.0	4.5	5.1	.0	1.1	43.8	
	TOT %	9.8	3.2	4.7	6.2	5.1	5.0	4.5	5.1	.0	1.1	44.7	
TOT OBS													
TOT PCT													
		19.3	7.7	13.1	17.3	10.0	9.0	7.4	13.1	.0	3.1	100.0	731

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.0	.1	.1	.0	.0	.3	.0	.0	.6	
	11-21	.1	.0	.0	.4	.1	.0	.0	.2	.0	.0	.8	
	22+	.6	.0	.0	.0	.0	.0	.0	.2	.0	.0	.8	
	TOT %	.8	.0	.0	.4	.2	.0	.0	.7	.0	.0	2.2	
1<2	0-3	.0	.0	.0	.1	.0	.0	.0	.1	.0	.1	.4	
	4-10	.1	.0	.0	.0	.3	.0	.0	.2	.0	.0	.5	
	11-21	.0	.0	.1	.0	.0	.0	.0	.1	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.1	.1	.3	.0	.0	.4	.0	.1	1.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.1	.0	.0	.0	.1	.0	.0	*	.0	.0	.3	
	TOT %	.1	.0	.0	.0	.1	.0	.0	*	.0	.0	.3	
5<10	0-3	.6	1.0	.3	.6	.2	.1	.1	.4	.0	1.9	5.2	
	4-10	2.7	2.1	4.0	3.8	1.9	2.1	1.7	2.3	.0	.0	20.8	
	11-21	4.2	1.0	3.3	4.3	1.6	1.4	.9	2.8	.0	.0	19.3	
	22+	.2	.0	.1	1.3	.6	.2	.1	.9	.0	.0	3.4	
	TOT %	7.8	4.1	7.7	9.9	4.3	3.8	2.8	6.4	.0	1.9	48.7	
10+	0-3	.5	.5	.6	.3	.1	.1	.5	.3	.0	1.0	3.9	
	4-10	4.1	1.7	3.3	3.8	2.4	2.3	2.8	3.3	.0	.0	23.8	
	11-21	5.1	1.3	1.1	2.4	2.1	2.5	.3	1.8	.0	.0	16.8	
	22+	.5	.1	.1	.4	.4	.4	.7	.5	.0	.0	3.1	
	TOT %	10.1	3.8	5.0	6.9	5.0	5.4	4.4	6.0	.0	1.0	47.6	
TOT OBS													
TOT PCT													
		19.0	8.0	12.8	17.4	9.8	9.2	7.3	13.6	.0	3.1	100.0	786

SEPTEMBER

PERIOD: (PRIMARY) 1909-1970
(OVER-ALL) 1872-1970

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HRUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY MGT	TOTAL OBS
00003	.0	.0	.0	2.8	7.0	1.4	.0	.0	.0	.0	11.3	88.7	71
06009	.0	.0	.0	2.7	5.4	1.4	.0	.0	1.4	.0	10.8	89.2	74
12015	.0	.0	1.2	6.2	9.9	4.9	.0	.0	.0	.0	22.2	77.8	81
18021	.0	.0	1.5	1.5	13.4	.0	.0	1.5	1.5	.0	19.4	80.6	67
TOT	0	0	2	10	26	6	0	1	2	0	47	246	293
PCT	.0	.0	.7	3.4	8.9	2.0	.0	.3	.7	.0	16.0	84.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	2.0	2.0	.0	42.8	53.3	152
06009	.4	2.5	1.3	.4	56.5	38.8	237
12015	.0	2.1	.5	.0	40.4	56.9	188
18021	.0	1.6	1.2	.4	56.3	40.6	254
TOT	1	17	10	2	418	383	831
PCT	.1	2.0	1.2	.2	50.3	46.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING MGT (FEET, NH > 4/8), BY HOUR

HRUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	.0	3.0	9.0	88.1	67
06009	.0	.0	4.3	8.6	87.1	70
12015	.0	1.3	7.6	15.2	77.2	79
18021	.0	1.7	3.4	18.6	78.0	59
TOT	0	2	13	35	227	275
PCT	.0	.7	4.7	12.7	82.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.0	.2	.0	.0	1	.2
75/79	.0	.0	.4	.5	1.3	1.3	.2	.4	22	4.0
70/74	.0	.0	.7	2.2	5.3	6.7	10.3	4.9	166	30.1
65/69	.0	.0	2.0	5.6	9.8	9.8	13.6	11.4	288	52.2
60/64	.0	.0	1.3	1.1	1.4	3.3	2.7	3.1	71	12.9
55/59	.0	.0	.4	.0	.4	.0	.0	.0	4	.7
TOTAL	0	0	26	52	100	117	148	109	552	100.0
PCT	.0	.0	4.7	9.4	18.1	21.2	26.8	19.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
75/79	1.8	.3	.5	.3	.2	.2	.0	.5	.0	.4
70/74	10.6	2.8	2.3	3.1	1.1	2.5	2.0	5.0	.0	.7
65/69	8.1	3.4	9.0	10.1	5.4	4.1	3.4	6.6	.0	2.2
60/64	.4	.1	1.7	1.6	3.3	3.2	1.7	.5	.0	.4
55/59	.0	.0	.0	.0	.0	.2	.5	.0	.0	.0
TOTAL	21.0	6.5	13.5	15.0	10.0	10.1	7.7	12.6	.0	3.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	78	74	69	63	58	57	69.1	221
06009	82	79	75	69	64	61	60	69.5	323
12015	76	74	72	67	62	59	57	67.3	255
18021	78	75	71	67	61	59	56	66.6	370
TOT	82	77	74	68	62	59	56	68.0	1169

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	17.9	19.8	22.6	26.4	13.2	74	106
06009	.0	19.9	15.4	19.9	24.4	20.5	75	156
12015	.0	10.2	23.8	19.7	25.2	21.1	76	147
18021	.0	8.7	12.8	22.1	29.7	26.7	80	172
TOT	0	80	102	122	154	123	77	581

SEPTEMBER

PERIOD: (PRIMARY) 1909-1970
(OVER-ALL) 1872-1970

TABLE 17

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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FDG	NO FDG
11/13	.0	.0	.2	.0	.2	.0	.0	2	.0	.3
9/10	.0	.0	.0	.0	.2	.3	.0	3	.0	.5
7/8	.0	.2	.0	.0	1.1	.0	.2	9	.0	1.4
6	.0	.0	.0	.2	1.1	.5	.0	11	.0	1.7
5	.0	.0	.2	.6	.2	.0	.0	6	.0	.9
4	.0	.0	.3	2.0	1.7	.2	.0	27	.0	4.2
3	.0	.0	.6	3.7	1.4	.0	.0	37	.0	5.7
2	.0	.3	1.2	5.4	2.2	.0	.0	59	.2	9.0
1	.0	.2	3.6	6.4	1.1	.0	.0	72	.6	10.5
0	.0	.3	6.4	6.5	1.1	.2	.0	93	.9	13.5
-1	.0	.8	6.5	5.1	.2	.0	.0	81	.5	12.1
-2	.0	.9	6.0	1.7	.2	.0	.0	57	.0	8.8
-3	.0	1.6	7.4	2.0	.0	.0	.0	71	.0	11.0
-4	.0	1.7	3.6	.3	.0	.0	.0	36	.2	5.4
-5	.2	1.4	1.9	.5	.0	.0	.0	25	.0	3.9
-6	.3	.9	1.6	.5	.0	.0	.0	21	.0	3.3
-7/-8	.8	2.0	1.1	.0	.0	.0	.0	25	.0	3.8
-9/-10	.8	.6	.2	.0	.0	.0	.0	10	.0	1.6
TOTAL	13	70	262	225	67	7	1	645	15	630
PCT	2.0	10.9	40.6	34.9	10.4	1.1	.2	100.0	2.3	97.7

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.3	1.0	.0	.0	.0	.0	2.2	.5	.9	.0	.0	.0	.0	1.4
1-2	.3	6.0	2.7	.0	.0	.0	8.9	.1	1.6	.3	.0	.0	.0	2.0
3-4	.0	.9	2.7	.0	.0	.0	3.5	.0	1.0	.6	.0	.0	.0	1.6
5-6	.0	.4	5.0	.0	.0	.0	5.4	.0	.0	1.2	.0	.0	.0	1.2
7	.0	.0	1.6	.3	.0	.0	1.9	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.4	.4	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.6	8.2	12.3	1.1	.0	.0	23.2	.6	3.4	2.2	.0	.0	.0	6.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.0	.0	.0	.0	1.2	.0	2.6	.4	.0	.0	.0	3.0
1-2	.4	3.2	.0	.0	.0	.0	3.6	.4	2.2	.5	.0	.0	.0	3.2
3-4	.0	2.0	1.6	.0	.0	.0	3.6	.0	.5	2.2	.0	.0	.0	2.8
5-6	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	2.4	.4	.0	.0	2.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.9	.9	.4	.0	.0	2.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	6.1	2.8	.0	.0	.0	9.6	.4	6.2	6.3	.9	.0	.0	13.9

PERIOD: (OVER-ALL) 1963-1970

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.4	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.4
1-2	.0	3.9	.7	.0	.0	.0	4.7	.0	2.6	1.3	.0	.0	.0	3.8
3-4	.0	.7	2.1	.0	.0	.0	2.9	.0	.4	4.3	.4	.0	.0	5.1
5-6	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	2.7	.0	.0	.0	2.7
7	.0	.0	.0	.4	.0	.0	.4	.0	.0	.4	.9	.0	.0	1.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.1	5.5	.4	.0	.0	11.1	.0	3.4	8.6	2.0	.0	.0	14.0

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.6	.4	.0	.0	.0	.0	1.1	.2	2.4	.0	.0	.0	.0	2.7	
1-2	.0	4.0	.4	.0	.0	.0	4.5	.0	2.4	.4	.0	.0	.0	2.9	
3-4	.0	.7	.3	.0	.0	.0	1.1	.0	1.4	1.5	.0	.0	.0	2.9	
5-6	.0	.4	.0	.4	.0	.0	.9	.0	.0	.6	.0	.0	.0	.6	
7	.0	.0	.4	1.3	.0	.0	1.7	.0	.0	.0	.1	.0	.0	.1	
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.4	.0	.0	.4	
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.6	5.6	1.2	2.7	.0	.0	10.1	.2	6.3	2.6	.6	.0	.0	9.7	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.9	8.9	.4	.0	.0	.0	15.2	
1-2	1.3	25.7	6.3	.0	.0	.0	33.3	
3-4	.0	7.6	15.2	.4	.0	.0	23.2	
5-6	.0	.8	15.6	.8	.0	.0	17.3	
7	.0	.0	3.4	3.4	.0	.0	7.6	
8-9	.0	.0	.4	1.7	.0	.0	2.1	
10-11	.0	.0	.0	.8	.0	.0	.8	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.2	43.9	41.4	7.6	.0	.0	100.0	237

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.6	10.1	13.8	8.6	4.5	.7	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	4
6-7	.0	3.7	7.1	11.2	7.5	1.5	1.1	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	89	5
8-9	.0	.0	3.4	3.0	4.5	1.1	1.5	.7	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	7
10-11	.0	.0	1.5	1.9	.7	.4	.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	7
12-13	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	10
>13	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	1.1	.4	.4	1.5	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	4
TOTAL	10	38	70	70	46	12	10	3	8	0	1	0	0	0	0	0	0	0	0	268	5
PCT	3.7	14.2	26.1	26.1	17.2	4.5	3.7	1.1	3.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1912-1971
(OVER-ALL) 1872-1971AREA 0005 BRISBANE
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.6	3.1	.0	.0	.0	.0	.0	4.7	.5	3.9	1.3	.0	5.2	.0	84.5
NE	1.0	.5	1.0	.0	.0	.0	.0	2.5	2.2	2.7	.0	.0	3.4	.0	90.2
E	1.8	4.8	.9	.0	.0	.0	.0	7.5	1.5	1.3	1.3	.0	2.2	.0	87.0
SE	3.9	7.6	.4	.0	.0	.0	.0	11.8	2.3	.0	.4	.0	5.4	.0	80.0
S	6.1	3.8	1.3	.0	.0	.0	.0	11.5	1.0	2.8	2.0	.0	7.6	.0	75.1
SW	5.2	.0	.0	.0	.0	.0	.0	5.2	.0	5.2	.0	.0	.0	.0	93.8
W	6.5	3.7	3.7	.0	.0	.0	.0	14.0	.0	.0	.0	.0	3.7	.0	82.2
NW	6.0	.7	.0	.0	.0	.0	.0	6.7	.3	8.7	2.7	.0	4.4	.0	78.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.3	3.6	.7	.0	.0	.0	.0	7.5	1.2	2.9	1.1	.0	4.5	.0	83.3
TOT OBS:	731														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	4.0	3.4	.0	.0	.0	.0	.0	7.4	3.4	.0	.0	.0	5.4	.0	83.9
06009	3.2	2.3	.5	.0	.0	.0	.0	5.9	.5	2.3	.9	.0	8.2	.0	83.6
12015	2.3	4.0	1.2	.0	.0	.0	.0	7.5	1.2	6.4	.6	.0	2.3	.0	82.7
18021	5.2	3.9	.9	.0	.0	.0	.0	10.0	.4	3.0	2.6	.0	2.2	.0	82.6
TOT PCT TOT OBS:	3.8 771	3.4	.6	.0	.0	.0	.0	7.8	1.2	3.0	1.2	.0	4.5	.0	83.1

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.3	11.0	9.2	1.1	.1	.0		22.6	11.1	21.3	19.8	23.0	28.7	21.2	26.1	19.0	22.5	
NE	.9	8.9	3.3	.3	.0	.0		13.4	8.9	11.3	8.2	19.3	19.1	13.3	10.1	11.5	13.5	
E	.8	9.8	4.1	.5	*	.0		15.2	9.5	17.2	13.4	16.8	17.6	24.5	16.0	11.8	8.1	
SE	.5	8.0	7.0	1.4	.2	.0		17.0	12.1	15.3	18.7	19.5	18.0	14.1	16.4	17.8	13.1	
S	.8	5.3	4.2	1.1	.2	.0		11.7	11.8	17.8	14.2	11.4	4.0	14.9	7.9	11.2	17.6	
SW	.3	1.9	1.6	.3	.0	.0		4.1	11.4	2.8	3.7	2.0	2.6	.8	5.7	6.4	6.3	
W	.7	2.1	.8	.2	.0	.0		3.8	8.6	4.4	3.4	1.7	3.7	3.0	4.7	4.4	5.4	
NW	1.2	5.3	4.1	.4	.0	.0		11.0	10.1	10.0	14.2	5.2	5.5	7.1	13.2	16.5	12.6	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.3							1.3	.0	.0	4.5	1.1	.7	1.1	.0	1.4	.9	
TOT OBS	85	578	378	58	5	0	1104		10.5	80	134	174	136	92	159	218	111	
TOT PCT	7.7	52.4	34.2	5.3	.5	.0		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	5.4	13.1	3.7	.5	.0			22.6	11.1	20.3	25.5	24.3	20.2
NE	4.4	8.1	.9	.0	.0			13.4	8.9	9.3	19.2	11.3	12.2
E	4.7	9.2	1.2	.1	.0			15.2	9.5	14.8	17.2	19.1	10.6
SE	3.0	10.2	3.4	.4	.0			17.0	12.1	17.4	18.9	15.5	16.2
S	2.5	6.7	2.1	.4	.0			11.7	11.8	15.5	8.1	10.5	13.4
SW	.9	2.3	.9	*	.0			4.1	11.4	3.4	2.3	3.9	6.4
W	1.4	2.1	.3	.0	.0			3.8	8.6	3.7	2.6	4.1	4.7
NW	3.1	6.4	1.5	.0	.0			11.0	10.1	12.6	5.3	11.0	15.2
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0	2.8	1.0	.4	1.2
TOT OBS	293	642	153	16	0	1104		10.5		214	310	251	329
TOT PCT	26.5	58.2	13.9	1.4	.0			100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1912-1971
(OVER-ALL) 1872-1971AREA 0005 BRISBANE
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.8	6.5	48.6	36.4	5.1	.5	.0	10.3	100.0	214
06009	1.0	5.5	51.9	34.8	5.8	1.0	.0	11.0	100.0	310
12015	.4	5.6	55.0	33.5	5.6	.0	.0	10.5	100.0	291
18021	1.2	7.9	53.2	32.8	4.6	.3	.0	10.1	100.0	329
TOT	14	71	578	378	58	5	0	10.5		1104
PCT	1.3	6.4	52.4	34.2	5.3	.5	.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	12.5	4.0	1.4	1.8		2.4
NE	6.2	3.9	2.7	1.6		3.3
E	5.1	7.2	2.8	1.9		3.7
SE	7.0	5.1	3.4	4.0		4.0
S	3.8	3.4	4.1	2.4		4.4
SW	.6	.8	1.4	.1		4.0
W	1.7	.0	.6	1.0		3.7
NW	3.5	2.0	2.3	.8		3.4
VAR	.0	.0	.0	.0		.0
CALM	.4	.4	.0	.0		1.5
TOT OBS	111	73	51	37	272	3.5
TOT PCT	40.8	26.8	18.8	13.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.4	.7	1.2	.0	.0	.0	.0	17.5	
NE	.0	.0	.0	.6	1.2	.3	.4	.0	.0	.0	11.9	
E	.0	.0	.0	1.6	.9	.9	.0	.0	.4	.0	13.3	
SE	.0	.0	.0	2.6	2.9	.6	.4	.0	.0	.0	13.1	
S	.0	.0	.4	1.7	1.6	1.1	.0	.0	.0	.0	8.9	
SW	.0	.0	.0	.2	.8	.0	.0	.0	.0	.4	1.6	
W	.0	.0	.0	.4	.6	.0	.0	.0	.0	.0	2.4	
NW	.0	.0	.0	.7	.4	.0	.0	.0	.0	.0	7.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
TOT OBS	0	0	1	22	25	11	2	0	1	1	209	272
TOT PCT	.0	.0	.4	8.1	9.2	4.0	.7	.0	.4	.4	76.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0
>6500	.7	.7	.7	.7	.7	.7	.7	.7
>5000	.7	.7	.7	.7	.7	.7	.7	.7
>3500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>2000	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
>1000	13.0	14.5	14.9	14.9	14.9	14.9	14.9	14.9
>600	18.8	22.1	22.5	22.5	22.5	22.5	22.5	22.5
>300	18.8	22.5	22.8	22.8	22.8	23.2	23.2	23.2
>150	18.8	22.5	22.8	22.8	22.8	23.2	23.2	23.2
>0	18.8	22.5	22.8	22.8	22.8	23.2	23.2	23.2
TOTAL	52	62	63	63	63	64	64	64

TOTAL NUMBER OF OBS: 276

PCT FREQ NM <5/8: 76.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	15.8	20.1	16.1	14.1	9.1	5.0	5.0	4.4	10.4	.0	298

PERIOD: (PRIMARY) 1912-1971
(OVER-ALL) 1872-1971

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.4	.0	.2	.1	.3	.0	.0	.3	.0	.0	1.2	
	TOT %	.4	.0	.2	.1	.3	.0	.0	.3	.0	.0	1.2	
1<2	PCP	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.4	
	NO PCP	.8	.5	.2	.8	1.0	.0	.1	.4	.0	.0	3.8	
	TOT %	.8	.6	.2	1.0	1.2	.0	.1	.4	.0	.0	4.2	
2<5	PCP	.1	*	.0	.1	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	*	.0	.1	.0	.0	.0	.0	.0	.0	.3	
5<10	PCP	.7	.1	1.0	1.6	1.2	.2	.5	.7	.0	.0	6.0	
	NO PCP	11.3	7.3	5.8	7.1	4.9	1.6	1.2	5.3	.0	.1	44.7	
	TOT %	12.0	7.5	6.9	8.8	6.1	1.8	1.7	6.0	.0	.1	50.8	
10+	PCP	.2	*	.1	.1	.2	.0	.0	.0	.0	.0	.7	
	NO PCP	8.3	5.8	8.1	7.5	5.7	1.5	1.8	3.6	.0	.4	42.7	
	TOT %	8.5	5.8	8.2	7.6	6.0	1.5	1.8	3.6	.0	.4	43.4	
TOT OBS													
TOT PCT													
		21.8	13.9	15.5	17.6	13.4	3.3	3.7	10.2	.0	.5	100.0	731

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	4-10	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.2	
	11-21	.1	.0	.1	.1	.1	.0	.0	.1	.0	.0	.5	
	22+	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.4	.0	.2	.1	.2	.0	.0	.2	.0	.0	1.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	4-10	.2	.4	.2	.1	.7	.0	.0	.2	.0	.0	1.8	
	11-21	.4	.1	.0	.7	.4	.0	.0	.1	.0	.0	1.7	
	22+	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.8	.6	.2	.9	1.0	.0	.1	.4	.0	.0	3.9	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
	11-21	.2	*	.0	.1	.2	.1	.0	.2	.0	.0	.9	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	*	.0	.1	.2	.1	.1	.2	.0	.0	1.0	
5<10	0-3	.9	.8	.5	.1	.5	.1	.3	.6	.0	.1	3.9	
	4-10	5.8	4.2	3.5	3.1	2.6	.8	1.1	2.9	.0	.0	23.9	
	11-21	3.9	2.1	1.9	3.4	2.0	.7	.2	1.8	.0	.0	16.0	
	22+	.9	.1	.5	1.3	.4	.1	.2	.4	.0	.0	3.8	
	TOT %	11.4	7.1	6.4	7.9	5.5	1.7	1.7	5.8	.0	.1	47.6	
10+	0-3	.6	.1	.2	.1	.3	.1	.1	.4	.0	.4	2.2	
	4-10	4.6	4.2	5.9	4.6	2.4	.6	1.1	2.7	.0	.0	26.1	
	11-21	5.2	1.4	2.0	2.7	2.0	.6	.5	1.7	.0	.0	19.0	
	22+	.1	.1	.0	.5	1.0	.1	.0	.1	.0	.0	2.0	
	TOT %	10.4	5.8	8.1	7.8	5.8	1.4	1.7	5.0	.0	.4	46.3	
TOT OBS													
TOT PCT													
		23.2	13.5	14.9	16.8	12.7	3.1	3.7	11.6	.0	.5	100.0	817

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL DBS
00003	.0	.0	1.3	7.7	3.8	3.8	.0	.0	.0	.0	16.7	83.3	78
06009	.0	.0	.0	10.5	5.3	7.0	.0	.0	1.8	.0	24.6	75.4	57
12015	.0	.0	.0	6.0	12.0	3.6	1.2	.0	.0	.0	22.9	77.1	83
18021	.0	.0	.0	7.1	12.9	2.9	1.4	.0	.0	1.4	25.7	74.3	70
TOT	0	0	1	22	25	12	2	0	1	1	64	224	288
PCT	.0	.0	.3	7.6	8.7	4.2	.7	.0	.3	.3	22.2	77.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	.0	.0	4.5	.6	36.9	58.0	157
06009	.0	1.2	7.8	.0	56.7	34.3	245
12015	.0	.5	1.5	2.0	42.9	53.0	198
18021	.4	2.3	1.6	1.2	53.5	41.1	258
TOT	1	10	33	8	420	386	858
PCT	.1	1.2	3.8	.9	49.0	45.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50yd	<600 <1	<1000 <3	1000+ AND 5+	NH <5/8 AND 5+	TOTAL DBS
00003	.0	1.3	9.2	7.9	82.9	76
06009	.0	.0	10.7	14.3	75.0	56
12015	.0	.0	6.5	18.2	75.3	77
18021	.0	1.5	9.0	17.9	73.1	67
TOT	0	2	24	40	212	276
PCT	.0	.7	8.7	14.5	76.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
80/84	.0	.0	.0	.2	.4	.2	.0	.0	4	.7
75/79	.0	.0	.2	.9	1.7	4.6	3.0	2.2	68	12.6
70/74	.0	.6	1.1	3.0	10.4	13.9	17.1	7.8	290	53.9
65/69	.0	.2	.7	2.6	5.9	7.6	9.9	4.6	170	31.6
60/64	.0	.0	.2	.0	.4	.2	.0	.4	6	1.1
TOTAL	0	4	12	36	101	143	161	81	538	100.0
PCT	.0	.7	2.2	6.7	18.8	26.6	29.9	15.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.4	*	.2	.1	.0	.0	.0	.0	.0	.0
3.6	2.8	2.4	1.1	.9	.2	.0	1.7	.0	.0
13.3	9.0	8.1	9.6	5.1	1.2	1.2	6.3	.0	.2
4.7	3.6	4.3	5.6	6.5	1.5	1.8	3.0	.0	.6
.0	.0	.0	.2	.3	.1	.6	.0	.0	.0
22.0	15.4	15.1	16.6	12.7	3.0	3.6	10.9	.0	.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	85	81	78	72	67	63	62	72.3	216
06009	81	78	77	71	67	64	62	71.4	309
12015	79	77	74	70	65	63	61	70.1	257
18021	77	76	74	69	65	63	60	69.5	341
TOT	85	79	76	71	65	63	60	70.7	1123

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	17.3	20.9	28.2	22.7	10.9	72	110		
06009	.0	7.9	21.9	29.1	28.5	12.6	75	191		
12015	.0	8.5	11.5	28.5	36.9	14.6	78	130		
18021	.0	6.6	18.0	22.2	29.3	24.0	78	167		
TOT	0	53	101	149	165	90	76	558		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.2	.0	.0	1	.0	.2
9/10	.0	.0	.0	.0	.0	.3	2	.0	.3
7/8	.0	.0	.0	.2	.2	.5	5	.0	.8
6	.0	.0	.0	.0	.8	.5	8	.0	1.3
5	.0	.0	.0	.3	2.0	.6	19	.0	3.0
4	.0	.0	.0	1.3	1.7	.5	22	.0	3.4
3	.0	.0	.2	.6	3.4	.6	31	.0	4.8
2	.0	.0	.9	3.4	3.0	.5	50	.3	7.5
1	.0	.0	1.9	6.6	3.6	.3	79	.2	12.2
0	.0	.2	1.9	9.2	4.5	.0	101	.2	15.6
-1	.0	.2	2.2	10.9	2.5	.0	101	.2	15.6
-2	.0	.2	3.6	5.8	.8	.0	66	.2	10.2
-3	.0	.2	5.2	3.8	.8	.0	62	.0	9.7
-4	.0	.2	3.1	4.1	.0	.0	47	.2	7.2
-5	.0	.0	1.7	1.4	.0	.2	21	.2	3.1
-6	.0	.0	1.4	.3	.0	.0	11	.0	1.7
-7/-8	.0	.2	1.4	.0	.0	.0	10	.2	1.4
-9/-10	.2	.0	.2	.0	.0	.0	2	.0	.3
-11/-13	.0	.0	.3	.0	.0	.0	2	.0	.3
TOTAL	1	5	153	307	25	640	100.0	1.4	98.6
PCT	.2	.8	23.9	48.0	23.3	3.9			

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TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

WGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	.9	.0	.0	.0	.0	1.3	.0	1.2	.0	.0	.0	.0	1.2
1-2	.0	.9	2.2	.0	.0	.0	7.1	.0	4.3	.5	.0	.0	.0	4.9
3-4	.0	.0	4.0	.0	.0	.0	4.9	.0	3.7	2.0	.0	.0	.0	5.7
5-6	.0	.0	3.9	.0	.0	.0	3.9	.0	.5	.3	.0	.0	.0	1.4
7	.0	.0	1.2	.0	.0	.0	1.2	.0	.4	.5	.4	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	10.2	3.4	.4	.0	.0	14.0
TOT PCT	.4	6.6	11.3	.0	.0	.0	18.4	.0						

WGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	2.6	.0	2.7	.4	.0	.0	.0	3.2
1-2	.0	.2	1.8	.0	.0	.0	6.1	.0	6.7	.5	.0	.0	.0	7.3
3-4	.0	.2	1.1	.0	.0	.0	7.3	.0	1.8	3.7	.1	.0	.0	5.7
5-6	.0	.8	1.8	.0	.0	.0	2.6	.0	.9	2.1	.0	.0	.0	2.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.3	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	12.2	7.6	1.1	.3	.0	21.4
TOT PCT	.0	13.8	4.8	.0	.0	.0	18.6	.0						

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.4	.0	.0	.0	.0	.4	.0	.9	.0	.0	.0	.0	.9	
1-2	.0	4.5	.0	.0	.0	.0	4.5	.0	.7	.0	.0	.0	.0	.7	
3-4	.0	.0	.8	.8	.0	.0	1.5	.0	.4	.1	.0	.0	.0	.5	
5-6	.4	.0	2.1	.4	.0	.0	2.9	.0	.0	.4	.0	.0	.0	.4	
7	.0	.0	1.3	.0	.3	.0	1.6	.0	.0	.4	.0	.0	.0	.4	
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	1.2	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.5	.0	.0	.0	.0	2.5
TOT PCT	.4	4.9	4.1	2.8	.3	.0	12.6	.0							

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.9		
1-2	.0	1.8	.0	.0	.0	.0	1.8	.0	3.3	.5	.0	.0	.0	4.2		
3-4	.0	.9	.4	.0	.0	.0	1.3	.0	.9	1.0	.4	.0	.0	2.3		
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7		
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	5.0	2.2	.4	.0	.0	8.0		98.7
TOT PCT	.0	2.7	.4	.0	.0	.0	3.2	.4								

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.7	9.9	.4	.0	.0	.0	12.1	
1-2	.9	30.2	5.6	.0	.0	.0	36.6	
3-4	.0	14.7	12.9	1.3	.0	.0	28.9	
5-6	.4	2.2	10.8	.4	.0	.0	13.8	
7	.0	.4	4.3	.4	.9	.0	6.0	
8-9	.0	.0	.0	.9	.0	.0	.9	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.0	1.3	.0	.0	1.3	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	232
TOT PCT	3.0	57.3	34.1	4.7	.9	.0	100.0	

PERIOD: (OVER-ALL) 1950-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.9	13.8	13.0	10.4	3.7	.0	.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	4
6-7	.0	3.7	8.6	9.3	4.1	3.0	1.5	1.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	89	5
8-9	.0	.0	2.2	3.3	3.7	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	6
10-11	.0	.4	.0	.7	1.1	.0	.4	.0	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	9
12-13	.0	.0	.4	.4	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	6
>13	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	5
INDEX	1.5	.7	2.6	.0	1.5	1.1	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	269	5
TOTAL	9	50	72	66	41	14	7	3	5	2	0	0	0	0	0	0	0	0	0	100.0	
PCT	3.3	18.6	26.8	24.5	15.2	5.2	2.6	1.1	1.9	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0		

NOVEMBER

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1869-1972

AREA 0005 BRISBANE
26.85 153.5E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG WEA
N	2.8	3.0	.0	.0	.0	.0	.0	5.8	.7	1.9	3.1	.0	2.8	.0	85.7
NE	2.7	3.6	.0	.0	.0	.0	.0	6.3	.9	3.6	.0	.0	2.2	.0	87.9
E	2.2	4.0	.4	.0	.0	.0	.0	6.7	.0	4.0	.4	.0	.7	.0	88.2
SE	3.0	9.7	.3	.0	.0	.0	.0	13.0	.6	2.6	2.3	.0	.7	.6	81.3
S	1.8	11.2	1.0	.0	.0	.0	.0	14.0	1.0	2.0	2.5	.0	9.2	.0	71.2
SW	2.4	1.2	.0	.0	.0	.0	.0	3.7	.0	.0	26.8	.0	14.6	.0	54.9
W	5.4	.0	.0	.0	.0	.0	.0	5.4	.0	6.8	18.9	.0	3.4	.0	63.5
NW	.0	.5	.0	.0	.0	.0	.0	.5	.0	3.9	6.8	.0	2.9	.0	85.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	14.3	.0	71.4
TOT PCT	2.4	5.6	.3	.0	.0	.0	.0	8.3	.5	3.0	3.3	.0	3.3	.1	81.9
TOT OBS:	736														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG NO PCPN	FOG NO PCPN PAST HR	SMOKE HAZE	SPRAY BLNG DUST	NO SIG WEA
00003	2.7	6.0	.0	.0	.0	.0	.0	8.7	.0	.7	4.7	.0	4.0	.7	82.0
06009	1.4	6.0	.0	.0	.0	.0	.0	7.4	.5	.5	2.8	.0	3.7	.0	85.2
12015	4.0	3.4	.0	.0	.0	.0	.0	7.4	1.1	8.5	2.3	.0	1.7	.0	79.5
18021	2.3	6.5	.9	.0	.0	.0	.0	9.8	.5	3.3	3.7	.0	3.7	.0	79.5
TOT PCT	2.5	5.5	.3	.0	.0	.0	.0	8.3	.5	3.2	3.3	.0	3.3	.1	81.6
TOT OBS:	737														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	.8	7.6	8.4	1.7	.0	.0	18.5	12.2		22.0	18.2	18.5	18.4	27.4	21.0	15.0	12.6
NE	1.7	9.2	3.8	.3	.0	.0	15.0	8.6		16.3	10.3	17.8	20.2	14.9	20.3	10.8	9.1
E	1.6	9.2	4.1	.2	.0	.0	15.1	8.9		9.3	17.6	18.5	15.1	22.8	12.6	15.3	10.9
SE	1.2	8.3	10.1	2.1	.8	.8	22.5	14.1		21.0	19.9	27.3	25.7	14.9	24.4	21.5	20.9
S	.6	3.9	5.6	2.0	.4	.8	12.5	14.4		13.3	17.2	9.7	10.3	9.2	8.2	13.3	20.4
SW	.4	1.9	1.3	.0	.8	.0	3.7	9.7		4.0	4.3	.7	2.2	1.1	1.6	6.6	6.7
W	.2	1.6	1.0	.8	.0	.0	2.8	9.9		3.3	2.7	1.9	2.6	1.9	1.9	3.5	4.8
NW	.2	4.4	3.2	.1	.0	.0	8.0	10.6		10.7	6.4	7.1	3.3	6.5	8.1	10.4	11.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9						1.9	.0		.0	3.1	.6	2.2	1.1	1.9	3.5	.9
TOT OBS	92	496	403	70	5	9	1075	11.3		75	128	173	136	92	155	201	115
TOT PCT	8.6	46.1	37.5	6.5	.5	.8	100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	3.6	10.5	4.2	.2	.0	18.5	12.2	19.6	18.4	23.4	14.2		
NE	6.6	7.0	1.5	.0	.0	15.0	8.6	12.7	18.9	18.3	10.2		
E	6.0	7.4	1.5	.1	.0	15.1	8.9	14.5	15.9	16.4	13.7		
SE	3.9	11.8	5.4	.6	.8	22.5	14.1	20.3	26.6	20.9	21.3		
S	2.1	6.1	3.4	.7	.2	12.5	14.4	15.8	10.0	8.6	15.9		
SW	1.2	2.1	.3	*	.0	3.7	9.7	4.2	1.4	1.4	7.4		
W	.7	1.9	.2	.0	.0	2.8	9.9	3.0	2.2	1.9	4.0		
NW	2.0	4.7	1.2	*	.0	8.0	10.6	8.0	5.4	7.5	10.9		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.9					1.9	.0	2.0	1.3	1.6	2.5		
TOT OBS	301	554	191	18	11	1075	11.3	203	309	247	316		
TOT PCT	28.0	51.5	17.8	1.7	1.0	100.0		100.0	100.0	100.0	100.0		

NOVEMBER

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1869-1972

AREA 0005 BRISBANE
26.85 153.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.0	7.9	47.8	35.5	5.9	.5	.5	11.1	100.0	203
06009	1.3	4.2	44.7	42.7	5.8	.6	.6	11.6	100.0	309
12015	1.6	5.3	44.5	40.1	7.3	.4	.8	11.5	100.0	247
18021	2.5	9.5	47.8	31.6	7.0	.3	1.3	11.0	100.0	316
TOT	20	72	496	403	70	5	9	11.3		1075
PCT	1.9	6.7	46.1	37.5	6.5	.5	.8		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCH	TOTAL OBS	MEAN CLOUD COVER
N	11.8	3.8	4.3	3.1		3.1
NE	6.8	3.9	3.8	2.7		3.7
E	5.9	4.2	3.3	2.3		3.7
SE	6.5	4.7	4.3	3.8		4.0
S	2.6	2.8	2.2	2.9		4.6
SW	1.1	.4	.7	.8		4.2
W	1.3	.5	.0	.4		3.1
NW	4.9	1.6	1.0	1.1		2.9
VAR	.0	.0	.0	.0		.0
CALM	.7	.0	.0	.0		.5
TOT OBS	117	62	55	48	282	3.6
TOT PCT	41.5	22.0	19.5	17.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	2500 4999	3000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.4	2.0	1.1	.4	.0	.0	.0	19.2	
NE	.0	.0	.1	1.1	1.6	.7	.0	.0	.0	.0	13.7	
E	.0	.0	1.0	.7	1.0	.0	.0	.3	.0	.0	12.7	
SE	.0	.0	.0	.5	3.6	2.2	.0	.1	.0	.4	12.4	
S	.0	.0	.0	1.2	2.4	1.0	.0	.0	.0	.0	6.0	
SW	.0	.0	.0	.8	.4	.4	.0	.0	.0	.0	1.5	
W	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	1.9	
NW	.0	.0	.0	.0	.1	.4	.0	.0	.0	.0	7.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	
TOT OBS	0	0	3	13	31	17	1	1	0	3	213	282
TOT PCT	.0	.0	1.1	4.6	11.0	6.0	.4	.4	.0	1.1	75.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7
= OR >5000	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1
= OR >3500	1.7	2.4	2.4	2.4	2.4	2.4	2.4	2.4
= OR >2000	5.9	8.3	8.3	8.3	8.3	8.3	8.3	8.3
= OR >1000	14.5	18.0	18.7	18.7	19.0	19.0	19.0	19.0
= OR >600	18.3	22.1	23.2	23.2	23.5	23.5	23.5	23.5
= OR >300	18.7	23.2	24.2	24.2	24.6	24.6	24.6	24.6
= OR >150	18.7	23.2	24.2	24.2	24.6	24.6	24.6	24.6
= OR >0	18.7	23.2	24.2	24.2	24.6	24.6	24.6	24.6
TOTAL	54	67	70	70	71	71	71	71

TOTAL NUMBER OF OBS: 289

PCT FREQ NH <5/8: 75.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCH	TOTAL OBS
	17.1	20.6	17.7	10.8	7.0	4.1	6.3	6.0	10.4	316

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1869-1972

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AREA 0005 BRISBANE
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.6	.0	.1	.7	.2	.7	.5	.5	.0	.0	3.3	
	TOT %	.6	.0	.1	.8	.2	.7	.5	.5	.0	.0	3.4	
1<2	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.3	.3	.0	.1	.8	.3	.1	.1	.0	.0	2.0	
	TOT %	.3	.3	.0	.2	.9	.3	.1	.1	.0	.0	2.2	
2<5	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.4	
	TOT %	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.4	
5<10	PCP	.8	.8	.7	2.8	1.5	.1	.1	*	.0	.0	6.9	
	NO PCP	8.3	6.9	7.4	11.3	6.4	.6	.8	2.9	.0	.4	45.1	
	TOT %	9.2	7.7	8.2	14.1	7.9	.7	1.0	3.0	.0	.4	52.0	
10+	PCP	.3	.1	.3	.1	.3	*	.0	.0	.0	.0	1.1	
	NO PCP	9.0	7.0	6.6	8.3	3.9	1.0	1.0	3.5	.0	.5	40.9	
	TOT %	9.3	7.1	6.9	8.4	4.2	1.1	1.0	3.5	.0	.5	42.0	
TOT OBS													736
TOT PCT		19.5	15.2	15.3	23.5	13.3	2.8	2.5	7.0	.0	1.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.0	.1	.3	.2	.2	.3	.3	.0	.0	1.5	
	11-21	.3	.0	.0	.4	.0	.5	.1	.1	.0	.0	1.4	
	22+	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.3	
	TOT %	.6	.0	.1	.8	.2	.7	.4	.4	.0	.0	3.1	
1<2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.3	
	4-10	.3	.3	.0	.1	.1	.3	.1	.1	.0	.0	1.3	
	11-21	.0	.0	.0	.1	.3	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.1	.4	.0	.0	.0	.0	.0	.5	
	TOT %	.3	.3	.0	.4	.9	.3	.1	.1	.0	.1	2.4	
2<5	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.3	
	11-21	.1	.0	.1	.0	.0	.0	.0	.1	.0	.0	.3	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.3	.0	.1	.0	.0	.1	.0	.0	.6	
5<10	0-3	.8	1.3	.9	.8	.5	.2	.1	.1	.0	.4	5.0	
	4-10	2.8	3.7	4.4	4.0	2.4	.5	.4	1.9	.0	.0	20.1	
	11-21	4.8	1.9	2.0	6.3	3.1	.1	.4	.9	.0	.0	19.6	
	22+	.8	.3	.3	2.3	1.4	.0	.0	.0	.0	.0	5.0	
	TOT %	9.2	7.2	7.7	13.3	7.4	.8	.9	2.9	.0	.4	49.7	
10+	0-3	.1	.4	.5	.0	.1	.3	.1	.0	.0	1.1	2.6	
	4-10	4.4	4.8	4.6	3.5	1.5	.7	.6	2.0	.0	.0	22.0	
	11-21	4.4	2.1	1.7	3.6	1.8	.4	.4	2.3	.0	.0	16.7	
	22+	.6	*	.0	1.0	1.1	.0	.0	*	.0	.0	2.8	
	TOT %	9.5	7.3	6.8	8.1	4.6	1.4	1.1	4.3	.0	1.1	44.1	
TOT OBS													796
TOT PCT		19.6	14.8	14.7	22.5	13.2	3.2	2.6	7.8	.0	1.6	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	4.0	13.3	5.3	.0	.0	.0	1.3	24.0	76.0	75
06009	.0	.0	.0	5.1	10.3	5.1	.0	.0	.0	1.3	21.8	78.2	78
12015	.0	.0	3.5	3.5	7.0	4.7	1.2	1.2	.0	2.3	23.3	76.7	86
18021	.0	.0	.0	4.8	11.1	7.9	.0	.0	.0	1.6	25.4	74.6	63
TOT	0	0	3	13	31	17	1	1	0	5	71	231	302
PCT	.0	.0	1.0	4.3	10.3	5.6	.3	.3	.0	1.7	23.5	76.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	5.1	1.9	.6	39.2	53.2	158
06009	.0	2.6	3.0	.9	53.2	38.3	230
12015	.0	2.1	1.1	.0	43.7	53.2	190
18021	.0	3.3	2.9	.8	57.7	35.1	239
TOT	0	26	19	5	410	357	817
PCT	.0	3.2	2.3	.6	50.2	43.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	1.4	6.9	18.1	75.0	72
06009	.0	.0	6.8	16.4	76.7	73
12015	.0	3.7	7.4	17.3	75.3	81
18021	.0	.0	4.8	20.6	74.6	63
TOT	0	4	19	52	218	289
PCT	.0	1.4	6.6	18.0	75.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.2	1.0	.8	.2	.0	11	2.3
75/79	.0	.0	1.4	2.1	4.1	10.6	8.1	2.9	141	29.2
70/74	.0	.0	.4	5.2	12.4	16.1	18.4	7.2	289	59.8
65/69	.0	.0	.0	.2	1.4	2.3	3.1	1.2	40	8.3
60/64	.0	.0	.0	.0	.0	.0	.2	.2	2	.4
TOTAL	0	0	9	37	92	144	145	56	483	100.0
PCT	.0	.0	1.9	7.7	19.0	29.8	30.0	11.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.7	.2	.4	.3	.2	.0	.0	.5	.0	.0
75/79	11.0	6.3	3.5	2.0	2.3	.7	.8	2.4	.0	.2
70/74	11.3	11.5	10.8	12.2	6.0	1.3	.8	4.9	.0	1.0
65/69	1.1	.7	.4	3.2	2.0	.5	.2	.3	.0	.0
60/64	.0	.0	.0	.2	.2	.1	.0	.0	.0	.0
TOTAL	24.1	18.7	15.1	17.9	10.6	2.5	1.8	8.0	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	85	82	80	74	69	65	64	74.3	201
06009	82	81	78	73	68	65	65	73.3	302
12015	81	78	76	73	67	64	63	72.2	291
18021	80	78	77	72	66	64	62	71.8	320
TOT	85	81	78	73	67	64	62	72.8	1074

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	18.4	30.6	26.5	17.3	7.1	71	98		
06009	.0	11.1	22.2	28.6	29.4	8.7	75	126		
12015	.0	3.8	16.5	34.6	33.8	11.3	78	133		
18021	.0	7.1	10.0	29.3	35.7	17.9	79	140		
TOT	0	47	94	149	149	58	76	497		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.2	.0	.0	1	.0	.2
9/10	.0	.0	.0	.0	.2	.3	.2	4	.0	.6
7/8	.0	.0	.0	.2	.5	.0	.0	4	.0	.6
6	.0	.0	.0	.3	.8	.3	.0	9	.0	1.4
5	.0	.0	.0	.3	.5	.2	.0	7	.0	1.1
4	.0	.0	.6	1.4	.8	.2	.0	19	.3	2.7
3	.0	.0	.6	2.7	2.2	.2	.0	36	.5	5.2
2	.0	.0	.9	5.4	1.6	.2	.0	31	.6	7.4
1	.2	.0	1.3	7.0	1.7	.0	.0	64	.8	9.3
0	.0	.2	4.4	9.5	.3	.0	.0	94	.3	14.6
-1	.0	.2	4.9	8.5	.3	.0	.0	88	.3	13.6
-2	.0	1.6	7.0	4.6	.0	.0	.0	83	.3	12.8
-3	.0	.6	6.0	3.5	.0	.0	.0	64	.0	10.1
-4	.0	1.3	3.5	1.4	.2	.0	.0	40	.2	6.2
-5	.3	1.4	3.3	.2	.0	.0	.0	33	.3	4.9
-6	.2	.8	2.1	.5	.0	.0	.0	22	.0	3.5
-7/-8	.2	.8	.6	.0	.0	.0	.0	10	.0	1.6
-9/-10	.0	.5	.0	.0	.0	.0	.0	3	.0	.5
TOTAL	5	46	223	288	61	8	1	632	3.6	96.4
PCT	.8	7.3	35.3	45.6	9.7	1.3	.2	100.0		

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

N								NE							PCT
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	.4	.0	.0	.0	.0	.7	.3	.8	.0	.0	.0	.0	1.3	
1-2	.0	4.7	2.3	.0	.0	.0	7.0	.0	6.1	1.0	.0	.0	.0	7.1	
3-4	.0	3.3	5.1	.3	.0	.0	8.7	.4	2.9	1.2	.0	.0	.0	4.5	
5-6	.0	.4	4.4	.4	.0	.0	5.2	.0	.0	1.3	.0	.0	.0	1.3	
7	.0	.0	1.5	.0	.0	.0	1.5	.0	.4	.0	.0	.0	.0	.4	
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.9	10.2	4.4	.0	.0	.0	15.5	
TOT PCT	.3	8.8	13.7	.7	.0	.0	23.6								

E								SE							PCT
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	2.8	.0	.0	.0	.0	2.8	.0	1.7	.0	.0	.0	.0	1.7	
1-2	.4	7.2	1.4	.0	.0	.0	9.1	.0	2.8	1.3	.0	.0	.0	4.1	
3-4	.0	1.0	1.6	.0	.0	.0	2.7	.0	3.0	3.1	.4	.0	.0	6.5	
5-6	.0	.0	.8	.0	.0	.0	.8	.0	.8	3.4	.2	.0	.0	4.4	
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	1.3	1.3	.0	.0	2.7	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	11.0	4.3	.0	.0	.0	15.7	.0	8.3	9.2	2.4	.0	.0	19.9	

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.4	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.4
1-2	.0	1.6	.3	.0	.0	.0	2.0	.0	.1	.5	.0	.0	.0	.6
3-4	.0	1.2	1.3	.4	.0	.0	3.0	.0	.0	.9	.0	.0	.0	.9
5-6	.0	.4	3.0	1.0	.0	.0	4.4	.0	.4	.2	.0	.0	.0	.6
7	.0	.0	.3	.7	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.7	5.3	2.2	.4	.0	11.6	.0	.9	1.6	.0	.0	.0	2.6

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.4	.0	.0	.0	.0	.4	.0	.0	.9	.0	.0	.0	.0	.0
1-2	.4	.3	.0	.0	.0	.0	.7	.0	.2	.9	.0	.0	.0	.1	1.1
3-4	.0	.3	.0	.0	.0	.0	.3	.0	.6	1.9	.1	.0	.0	.2	2.6
5-6	.0	.0	.7	.0	.0	.0	.7	.0	.0	2.2	.0	.0	.0	.2	2.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.1	1.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	1.0	.7	.0	.0	.0	2.2	.0	.8	7.2	.1	.0	.0	8.1	99.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.2	6.9	.0	.0	.0	.0	10.1	
1-2	.8	22.7	7.7	.0	.0	.0	31.2	
3-4	.4	12.1	15.0	1.2	.0	.0	28.7	
5-6	.0	2.0	15.8	1.6	.0	.0	19.4	
7	.0	.4	4.9	2.0	.4	.0	7.7	
8-9	.0	.0	1.2	.4	.0	.0	1.6	
10-11	.0	.0	.4	.0	.0	.0	.4	
12	.0	.0	.4	.0	.0	.0	.4	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.4	.0	.0	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.5	44.1	45.7	5.3	.4	.0	100.0	247

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT	
<6	.7	10.5	15.0	8.4	4.2	1.7	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	4
6-7	.0	.3	8.0	14.6	5.6	2.1	3.1	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	99	6
8-9	.0	1.0	2.1	3.1	4.5	2.1	.3	.3	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	41	6
10-11	.0	1.4	1.0	1.4	1.0	.3	.7	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	6
12-13	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	13
>13	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	7
INDET	.3	.0	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	4
TOTAL	3	38	76	80	48	18	13	4	3	3	1	0	0	0	0	0	0	0	0	0	287	5
PCT	1.0	13.2	26.5	27.9	16.7	6.3	4.5	1.4	1.0	1.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1877-1971

TABLE 1

AREA 0005 BRISBANE
26.85 153.5E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	6.4	2.3	1.6	.0	.0	.0	.0	10.4	2.9	6.1	1.6	.0	5.5	.0	75.6
NE	2.1	2.5	.8	.0	.0	.0	.0	5.5	.2	1.3	.4	.0	1.5	.8	90.3
E	6.1	8.6	1.2	.0	.0	.0	.8	16.7	.6	1.6	.8	.0	.0	.0	81.1
SE	5.5	8.1	.4	.0	.0	.0	.0	13.9	3.9	.9	2.5	.0	.4	.0	78.5
S	6.6	9.2	.0	.0	.0	.0	.0	15.8	4.6	2.6	.0	.0	.7	.0	76.3
SW	6.0	16.0	.0	.0	.0	.0	4.0	26.0	1.0	3.0	8.0	.0	.0	.0	62.0
W	.0	15.8	.0	.0	.0	.0	.0	15.8	.0	.0	.0	.0	10.5	.0	73.7
NW	3.8	6.1	.0	.0	.0	.0	.0	9.9	.0	2.3	.0	.0	6.9	.0	82.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	14.3	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	.0	.0	85.7
TOT PCT	5.1	6.6	.8	.0	.0	.0	.3	12.8	2.1	2.4	1.4	.0	2.0	.2	79.9
TOT OBS:	666														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	1.8	5.3	.0	.0	.0	.0	.0	7.0	2.6	.0	1.8	.0	2.6	.0	86.0
06009	4.2	4.7	.9	.0	.0	.0	.5	10.3	.5	3.7	1.4	.0	2.8	.0	82.7
12015	7.1	5.4	.6	.0	.0	.0	.6	13.7	2.4	4.2	.0	.0	1.2	.0	78.6
18021	8.0	10.1	1.0	.0	.0	.0	.0	19.1	3.0	2.0	2.0	.0	1.0	.5	72.9
TOT PCT	5.6	6.5	.7	.0	.0	.0	.3	13.1	2.0	2.7	1.3	.0	1.9	.1	79.4
TOT OBS:	695														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.6	8.8	8.6	1.0	.0	.0		19.9	10.9		18.2	21.4	17.5	19.8	19.1	22.9	22.5	15.1
NE	1.9	11.8	4.3	.1	.0	.0		18.1	8.4		14.8	12.6	23.0	25.0	23.9	17.1	14.9	11.4
E	1.0	9.1	7.4	.6	.0	.0		18.1	10.4		23.3	11.7	17.4	19.8	22.5	17.5	18.5	16.8
SE	1.5	7.8	9.6	1.4	.0	.0		20.3	12.1		14.4	18.4	28.4	23.8	21.3	20.7	16.2	17.3
S	.8	3.5	5.1	1.3	.4	.0		11.0	14.1		15.7	19.4	10.7	7.3	7.9	8.0	9.2	14.9
SW	.7	1.7	.8	.3	.0	.0		3.5	8.9		3.8	6.3	2.0	.4	.6	3.4	4.5	7.4
W	.3	1.0	.2	.0	.0	.0		1.5	6.9		1.7	2.4	.6	.8	.0	.3	1.6	5.4
NW	.4	2.6	2.2	.1	.0	.0		5.3	10.2		8.1	3.9	1.2	1.6	2.5	5.8	9.6	9.7
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0		.0	3.9	1.1	1.6	2.2	4.1	3.0	2.0
TOT OBS	106	461	381	48	4	0	1000		10.5		59	103	177	124	89	146	201	101
TOT PCT	10.6	46.1	38.1	4.8	.4	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40					00	06	12	18	21
N	5.3	11.1	3.3	.3	.0		19.9	10.9	20.2	18.4	21.5	20.0	
NE	7.1	9.9	1.2	.0	.0		18.1	8.4	13.4	23.8	19.7	13.7	
E	5.2	10.2	2.7	.0	.0		18.1	10.4	15.9	18.4	19.4	18.0	
SE	3.8	10.8	5.7	.1	.0		20.3	12.1	17.0	25.3	21.0	16.6	
S	2.2	4.6	3.4	.7	.1		11.0	14.1	18.1	9.3	8.0	11.1	
SW	1.8	1.1	.4	.1	.0		3.5	8.9	5.4	1.3	2.3	5.5	
W	.8	.6	.1	.0	.0		1.5	6.9	2.2	.7	.2	2.9	
NW	1.7	3.2	.4	.0	.0		5.3	10.2	5.4	1.4	4.6	9.6	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.4						2.4	.0	2.5	1.3	3.4	2.6	
TOT OBS	301	515	171	12	1	1000		10.5	162	301	235	302	
TOT PCT	30.1	51.5	17.1	1.2	.1		100.0		100.0	100.0	100.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1877-1971AREA 0005 BRISBANE
26.05 153.9E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND DIR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	2.5	10.5	47.5	31.5	8.0	.0	.0	.0	10.6	100.0	162
06009	1.3	6.0	44.9	42.5	4.3	1.0	.0	.0	11.2	100.0	301
12015	3.4	8.1	41.7	43.0	3.4	.4	.0	.0	10.5	100.0	235
18021	2.6	9.3	50.0	33.4	4.6	.0	.0	.0	9.9	100.0	302
TOT	2.4	8.2	46.1	38.1	4.8	.4	.0	.0	10.5		1000
PCT	2.4	8.2	46.1	38.1	4.8	.4	.0	.0	10.5		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	7.4	4.0	4.3	1.6		3.5
NE	8.1	5.4	4.1	1.6		3.6
E	8.1	6.0	4.1	2.9		3.7
SE	5.5	6.3	6.3	2.9		4.3
S	1.7	3.9	2.6	3.0		4.9
SW	.4	.5	.4	.5		4.1
W	.4	.4	.7	.0		4.2
NW	2.3	1.2	1.0	1.0		3.5
VAR	.0	.0	.0	.0		.0
CALM	.7	.0	.7	.0		3.5
TOT OBS	93	74	65	35	267	3.9
TOT PCT	34.8	27.7	24.3	13.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.0	.4	.0	.3	2.3	.4	.4	.0	.0	.0	13.6	
NE	.0	.0	.0	.7	1.2	.4	.0	.0	.0	.0	16.9	
E	.0	.6	.4	1.8	.9	.0	.0	.0	.0	.0	16.7	
SE	.0	.2	.5	2.1	3.0	.4	.7	.0	.0	.0	14.1	
S	.0	.0	.3	.9	2.3	1.1	.0	.0	.0	.0	6.3	
SW	.0	.0	.0	.1	.4	.0	.0	.0	.0	.0	1.7	
W	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	1.1	
NW	.0	.0	.0	.5	1.0	.0	.0	.0	.0	.0	4.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.7	
TOT OBS	0	3	3	19	31	6	3	0	0	1	201	267
TOT PCT	.0	1.1	1.1	7.1	11.6	2.2	1.1	.0	.0	.4	75.3	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.7	.7	.7	.7	.7	.7	.7	.7
>5000	.7	.7	.7	.7	.7	.7	.7	.7
>3500	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
>2000	2.9	3.6	4.0	4.0	4.0	4.0	4.0	4.0
>1000	10.1	14.4	14.8	14.8	14.8	14.8	15.2	15.2
>600	15.2	21.3	21.7	21.7	21.7	21.7	22.0	22.0
>300	15.9	23.1	23.5	23.5	23.5	23.5	23.8	23.8
>150	15.9	23.1	24.5	24.5	24.5	24.5	24.9	24.9
>0	15.9	23.1	24.5	24.5	24.5	24.5	24.9	24.9
TOTAL	44	64	68	68	68	68	69	69

TOTAL NUMBER OF OBS: 277

PCT FREQ NH <5/8: 75.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
7.8	18.2	19.5	16.6	9.4	6.5	4.2	7.8	10.1	.0	308

DECEMBER

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1877-1971AREA 0005 BRISBANE
26.85 153.5E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.2	.0	.0	.2	.0	.0	.3	
	NO PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.5	
1/2<1	PCP	.0	.0	.2	.0	.1	.1	.0	.0	.0	.0	.3	
	NO PCP	.2	.1	.2	.5	.0	.2	.0	.0	.0	.0	1.1	
	TOT %	.2	.1	.3	.5	.1	.2	.0	.0	.0	.0	1.4	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.7	.1	.0	.1	.1	.2	.2	.0	.0	.0	1.2	
	TOT %	.7	.1	.0	.1	.1	.2	.2	.0	.0	.0	1.2	
2<5	PCP	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.3	
	TOT %	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.6	
5<10	PCP	1.6	1.0	2.6	2.9	1.4	.9	.1	.3	.0	.0	10.7	
	NO PCP	8.6	7.2	6.8	9.5	5.3	1.7	.5	2.2	.0	.2	42.0	
	TOT %	10.2	8.2	9.3	12.4	6.8	2.6	.6	2.5	.0	.2	52.6	
10+	PCP	.4	.0	.3	.4	.2	.0	.2	.4	.0	.2	1.2	
	NO PCP	7.6	9.2	9.0	8.3	4.2	.8	.5	2.2	.0	.8	42.6	
	TOT %	8.0	9.2	9.3	8.3	4.4	.8	.7	2.3	.0	.9	43.8	
TOT OBS		665											
TOT PCT		10.2	17.7	19.1	21.4	11.4	3.8	1.4	4.9	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.0	.0	.0	.1	.0	.0	.1	.0	.0	.4	
1/2<1	0-3	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.3	
	4-10	.0	.1	.2	.1	.0	.0	.0	.0	.0	.0	.4	
	11-21	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.3	
	TOT %	.1	.1	.3	.5	.1	.2	.0	.0	.0	.0	1.2	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.1	.0	.0	.1	.2	.0	.0	.0	.0	.7	
	11-21	.3	.0	.0	.1	.2	.0	.1	.0	.0	.0	.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.6	.1	.0	.1	.3	.2	.1	.0	.0	.0	1.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
	11-21	.2	.2	.2	.2	.0	.0	.0	.0	.0	.0	.8	
	22+	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.4	
	TOT %	.2	.2	.2	.5	.4	.0	.0	.0	.0	.0	1.5	
5<10	0-3	.8	1.4	.8	1.0	.5	.6	.3	.3	.0	.7	6.3	
	4-10	5.2	4.1	3.4	3.8	1.8	.8	.2	1.2	.0	.0	20.5	
	11-21	3.0	2.2	4.1	5.6	3.2	.7	.1	.9	.0	.0	19.8	
	22+	.5	.0	.2	1.0	.9	.2	.0	.1	.0	.0	2.9	
	TOT %	9.6	7.7	8.5	11.4	6.4	2.4	.5	2.4	.0	.7	49.5	
10+	0-3	.4	.5	.1	.3	.2	.0	.0	.1	.0	1.1	2.6	
	4-10	3.3	6.6	5.3	3.6	1.4	.6	.6	1.3	.0	.0	22.7	
	11-21	4.3	2.4	3.6	4.8	2.5	.3	.0	1.2	.0	.0	19.1	
	22+	.5	.0	.1	.2	.6	.1	.0	.4	.0	.0	1.6	
	TOT %	8.5	9.5	9.1	8.8	4.6	1.1	.6	2.6	.0	1.1	46.0	
TOT OBS													732
TOT PCT		19.2	17.5	18.1	21.2	12.0	3.9	1.3	5.1	.0	1.8	100.0	

DECEMBER

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1877-1971AREA 0005 BRISBANE
26.85 153.5E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL DBS
00003	.0	3.3	.0	5.0	8.3	1.7	1.7	.0	.0	.0	20.0	80.0	60
06009	.0	.0	1.4	4.1	13.5	1.4	2.7	.0	.0	1.4	24.3	75.7	74
12015	.0	1.3	1.3	10.1	3.8	2.5	.0	.0	.0	.0	19.0	81.0	79
18021	.0	.0	3.9	6.6	17.1	2.6	.0	.0	.0	1.3	31.6	68.4	76
TOT	0	3	5	19	31	6	3	0	0	2	69	220	289
PCT	.0	1.0	1.7	6.6	10.7	2.1	1.0	.0	.0	.7	23.9	76.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	.0	1.6	1.6	1.6	41.5	53.7	123
06009	.9	.9	.9	.9	56.5	40.1	232
12015	.0	.6	1.1	1.7	45.3	51.4	101
18021	.4	2.2	1.8	1.8	50.2	43.6	225
TOT	3	10	10	11	377	350	761
PCT	.4	1.3	1.3	1.4	49.5	46.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL DBS
00003	.0	3.3	8.3	11.7	80.0	60
06009	.0	4.1	8.1	17.6	74.3	74
12015	.0	2.8	14.1	7.0	78.9	71
18021	.0	4.2	12.5	20.8	66.7	72
TOT	0	10	30	40	207	277
PCT	.0	3.6	10.8	14.4	74.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
85/89	.0	.0	.0	.2	.2	.0	.0	.0	2	.4
80/84	.0	.2	.0	.2	.6	2.7	2.1	.6	31	6.4
75/79	.0	.0	.2	1.2	7.9	18.8	12.4	9.9	244	50.4
70/74	.0	.0	.0	2.1	10.1	9.7	11.8	6.0	192	39.7
65/69	.0	.0	.0	.0	.6	.2	1.0	1.2	15	3.1
TOTAL	0	1	1	18	94	152	132	86	484	100.0
PCT	.0	.2	.2	3.7	19.4	31.4	27.3	17.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
2.6	1.5	.3	.7	.2	.2	.2	.8	.0	.0
14.6	11.6	7.9	7.2	3.8	1.0	.1	3.2	.0	1.0
3.0	5.5	10.7	10.4	5.9	1.1	1.1	1.5	.0	.4
.0	.0	.5	1.3	.8	.3	.0	.2	.0	.0
20.4	18.6	19.6	19.6	10.6	2.6	1.4	5.7	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	88	85	83	77	71	70	69	77.0	163
06009	88	86	82	76	70	67	65	76.2	306
12015	81	79	78	75	70	66	65	74.4	237
18021	82	81	78	74	69	67	67	74.3	312
TOT	88	83	81	75	70	67	65	75.3	1018

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	11.4	22.8	34.2	20.3	11.4	74	79		
06009	.0	4.1	21.2	34.9	27.4	12.3	77	146		
12015	.0	2.2	19.4	30.6	27.6	20.1	79	134		
18021	.0	2.1	14.3	26.4	30.7	26.4	81	140		
TOT	0	21	95	156	136	91	78	499		

DECEMBER

PERIOD: (PRIMARY) 1911-1971
(OVER-ALL) 1877-1971

TABLE 17

AREA 0003 BRISBANE
26.85 153.5EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	TOT	N FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.2	1	.2	.0
9/10	.0	.0	.0	.0	.0	.2	1	.0	.2
7/8	.0	.0	.0	.2	.7	.4	7	.0	1.2
6	.0	.2	.7	.2	.4	.0	8	.0	1.4
5	.0	.0	.0	.9	1.4	.0	13	.0	2.3
4	.0	.0	1.2	2.1	1.1	.0	25	.0	4.4
3	.0	.2	.7	3.9	1.1	.0	33	.2	5.6
2	.0	.4	1.6	4.8	.4	.0	40	.4	6.7
1	.0	.4	5.1	9.5	.5	.0	65	.4	11.1
0	.2	1.6	8.5	4.8	.0	.0	85	.0	15.0
-1	.2	1.1	11.8	3.0	.0	.0	91	.0	16.0
-2	.0	1.4	9.7	1.4	.0	.0	71	.0	12.5
-3	.2	2.3	7.2	.7	.0	.0	59	.4	10.0
-4	.0	1.8	2.5	.2	.0	.0	25	.0	4.4
-5	.0	1.8	1.4	.2	.0	.0	19	.2	3.2
-6	.2	1.9	.2	.0	.0	.0	13	.0	2.3
-7/-8	.2	.7	.7	.0	.0	.0	9	.0	1.6
-9/-10	.0	.4	.0	.0	.0	.0	3	.0	.5
TOTAL	5		292	31			568	9	559
PCT	.9	79	51.4	157	5.5	.7	100.0	1.6	98.4

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.6
1-2	.0	4.3	1.8	.0	.0	.0	6.1	.5	8.2	3.0	.0	.0	.0	11.7
3-4	.0	2.1	6.5	.5	.0	.0	9.2	.0	.6	2.3	.0	.0	.0	2.9
5-6	.0	.0	4.4	.0	.0	.0	4.4	.0	.5	.2	.0	.0	.0	.7
7	.0	.0	.4	.5	.0	.0	.8	.0	.0	1.1	.0	.0	.0	1.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	6.4	13.1	1.0	.0	.0	21.0	.5	9.9	6.5	.0	.0	.0	16.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	3.1	.0	.0	.0	.0	3.5	.1	.2	.0	.0	.0	.0	.4
1-2	.0	5.4	1.8	.0	.0	.0	7.1	.1	3.1	.6	.0	.0	.0	3.8
3-4	.0	2.3	3.9	.0	.0	.0	6.2	.0	3.0	6.5	.0	.0	.0	9.5
5-6	.0	.0	1.4	.0	.0	.0	1.4	.0	1.0	2.5	.0	.0	.0	3.5
7	.0	.0	.4	.5	.0	.0	.8	.0	.0	2.7	.5	.0	.0	3.2
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	10.7	7.5	.5	.0	.0	19.0	.2	7.3	13.3	1.4	.0	.0	22.3

PERIOD: (OVER-ALL) 1963-1971

LEGEMBER

AREA 0005 BRISBANE
26.85 153.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
1-2	.4	2.1	.8	.0	.0	.0	3.3	.0	.6	.1	.0	.0	.0	.7
3-4	.0	1.0	1.2	.5	.0	.0	2.6	.0	.5	.0	.0	.0	.0	.5
5-6	.0	.0	1.3	.0	.5	.0	1.8	.0	.0	.5	.0	.0	.0	.5
7	.0	.0	2.1	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.5	5.8	.5	1.0	.0	11.1	.0	1.1	.7	.0	.0	.0	1.8

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1-2	.5	.5	.0	.0	.0	.0	1.0	.0	1.5	.0	.0	.0	.0	1.5	.0
3-4	.0	1.0	.0	.0	.0	.0	1.0	.0	.6	1.4	.0	.0	.0	2.0	.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	1.4	.0	.0	.0	.0	1.9	.0	2.1	1.5	.0	.0	.0	3.7	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.1	4.1	.0	.0	.0	.0	9.2	
1-2	1.4	25.3	7.8	.0	.0	.0	34.6	
3-4	.5	10.6	21.2	.9	.0	.0	33.2	
5-6	.0	1.8	10.1	.0	.5	.0	12.4	
7	.0	.0	6.5	1.4	.0	.0	7.8	
8-9	.0	.0	.5	.5	.0	.0	.9	
10-11	.0	.0	.5	.0	.0	.0	.5	
12	.0	.0	.5	.0	.0	.0	.5	
13-16	.0	.0	.0	.5	.0	.0	.5	
17-19	.0	.0	.0	.0	.5	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.9	41.9	47.0	3.2	.9	.0	100.0	217

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.0	12.1	8.5	7.7	4.0	1.5	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	94
6-7	.0	.4	8.1	12.1	6.6	2.2	.7	.0	1.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	86
8-9	.0	.4	1.8	4.4	6.6	3.7	.4	.7	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	51
10-11	.0	.4	.0	.7	.4	1.5	.4	1.5	.0	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	16
12-13	.0	.0	.4	.0	.4	.7	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6
>13	.0	.0	.0	.0	.4	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9
INDEX	.4	.7	1.8	1.1	.7	.0	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16
TOTAL	1	38	56	71	52	27	7	8	7	2	2	1	0	0	0	0	0	0	0	0	272
PCT	.4	14.0	20.6	26.1	19.1	9.9	2.6	2.9	2.6	.7	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1857-1973

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	5.2	3.3	.9	.0	.0	.0	.0	9.4	1.2	3.4	1.2	.0	2.1	.1	83.2
NE	4.4	5.2	1.0	.0	.0	.0	.0	10.6	2.1	1.6	1.2	.0	1.3	.1	83.4
E	6.7	8.4	1.8	.0	.0	.0	.2	17.1	1.7	1.7	.7	.0	.5	.0	78.8
SE	5.0	10.8	.7	.0	.0	.0	.0	16.6	2.8	1.2	1.0	.0	.8	.0	78.2
S	4.9	8.0	1.0	.0	.0	.0	.0	13.8	2.5	1.7	.9	.0	2.2	.0	78.9
SW	4.8	6.3	.5	.0	.0	.0	.3	11.9	1.8	2.6	3.4	.4	2.5	.0	77.9
W	2.7	2.8	.4	.0	.0	.0	.0	5.9	1.4	6.9	1.6	.0	2.3	.1	82.2
NW	2.9	2.5	.5	.0	.0	.0	.0	5.9	.1	3.7	1.3	.0	2.2	.0	87.2
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6	2.0	.0	.0	.0	.0	.0	4.6	.0	4.9	.4	.0	2.7	.0	88.8
TOT PCT	4.5	6.3	.8	.0	.0	.0	*	11.7	1.8	2.1	1.1	*	1.6	*	82.2
TOT OBS:	8979														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA	
00603	3.3	5.4	.9	.0	.0	.0	.0	9.4	2.7	.1	1.2	.0	2.0	.1	84.5	
06609	4.1	6.4	.8	.0	.0	.0	.1	11.4	1.2	1.3	1.0	*	1.9	*	83.6	
12615	5.1	5.7	.9	.0	.0	.0	*	11.7	1.9	4.0	.7	.0	1.0	.0	81.3	
18621	5.4	7.2	.9	.0	.0	.0	.0	13.5	1.4	2.6	1.3	.0	1.4	*	80.2	
TOT PCT TOT OBS:	4.5 9299	6.3	.9	.0	.0	.0	*	11.7	1.7	2.1	1.1	*	1.6	*	82.3	

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	1.2	6.4	4.9	.6	*	.0		13.1	9.9	11.0	13.5	13.8	15.3	14.3	14.3	12.2	10.3	
NE	1.1	6.6	2.6	.3	*	*		10.7	8.9	7.6	8.7	12.6	14.8	12.1	11.8	8.9	8.1	
E	1.0	7.8	5.2	.9	.2	*		15.2	11.3	14.8	13.5	19.2	17.1	19.6	15.9	14.5	12.3	
SE	1.0	7.4	9.6	2.7	.4	.1		21.3	13.7	19.9	18.5	23.0	23.3	20.9	21.7	20.4	18.6	
S	.7	5.4	6.6	2.2	.5	.1		15.5	14.4	19.7	18.1	17.5	13.4	15.1	12.0	14.0	16.8	
SW	.7	3.6	3.6	.7	.1	*		8.7	12.5	11.2	10.4	5.5	4.6	5.5	7.6	10.7	14.7	
W	.6	2.8	1.8	.4	*	.0		5.5	10.2	6.1	5.6	3.8	4.1	4.8	5.9	6.6	7.3	
NW	.6	4.2	2.6	.3	*	.0		7.7	9.9	8.7	8.3	3.0	4.8	4.9	8.6	9.7	10.6	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.4							2.4	.0	1.1	3.5	1.5	2.7	2.7	2.2	3.0	1.6	
TOT OBS								13785	11.6	1043	1593	2185	1633	1162	1906	2814	1449	
TOT PCT	9.2	44.1	36.9	8.1	1.4	.3		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	3.7	7.2	2.0	.2	.0		13.1	9.9	12.5	14.4	14.2	11.5	
NE	4.3	5.5	.9	*	*		10.7	8.9	8.1	13.6	11.9	8.6	
E	4.2	8.1	2.3	.4	.1		15.2	11.3	14.0	16.0	17.2	13.8	
SE	3.5	10.6	6.0	1.0	.2		21.3	13.7	19.2	24.2	21.3	19.8	
S	2.5	7.6	4.0	1.2	.2		15.5	14.4	18.7	15.8	13.2	15.0	
SW	2.2	4.2	1.9	.3	.1		8.7	12.5	10.7	5.1	6.9	12.1	
W	1.8	2.8	.8	.1	*		5.5	10.2	9.8	3.9	5.5	6.8	
NW	2.5	4.2	.9	.1	.0		7.7	9.9	8.4	4.9	7.3	10.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.4						2.4	.0	2.8	2.0	2.4	2.5	
TOT OBS						13785	11.6		2636	3818	3068	4293	
TOT PCT	27.0	50.2	18.9	3.4	.5		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1904-1973
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	2.6	7.8	40.7	38.4	8.9	1.6	.2	11.9	100.0	2636
06009	2.0	6.6	44.3	36.8	8.1	1.8	.3	11.8	100.0	3818
12015	2.4	5.9	46.0	36.2	8.3	1.0	.3	11.6	100.0	3068
18021	2.5	7.2	44.8	36.5	7.4	1.2	.4	11.4	100.0	4283
TOT								11.6		13785
PCT	2.4	6.9	44.1	36.9	8.1	1.4	.3		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.2	2.4	2.5	1.4		3.3
NE	3.8	2.2	2.7	1.3		4.0
E	4.8	3.6	4.2	3.6		4.6
SE	6.1	6.0	6.1	3.5		4.2
S	5.6	4.4	4.4	3.0		4.1
SW	4.2	1.6	1.8	.9		3.7
W	3.4	.5	.9	.4		2.9
NW	3.1	1.1	1.2	.7		3.2
VAR	.0	.0	.0	.0		.0
CALM	1.5	.3	.3	.1		2.3
TOT OBS					3872	3.8
TOT PCT	38.9	22.0	24.1	15.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
N	.1	*	.1	.4	1.1	.5	.2	.0	.1	.1	10.0	
NE	*	*	.1	.6	1.0	.5	.1	.1	*	.1	7.6	
E	.1	.1	.4	1.9	2.1	.7	.2	.1	*	.1	10.6	
SE	.1	*	.2	1.9	3.2	1.3	.3	*	*	.1	14.5	
S	.1	.0	.3	1.6	2.3	1.0	.2	.1	*	.1	11.6	
SW	*	.0	.1	.5	.7	.4	.1	*	*	.1	6.5	
W	.0	.0	.0	.2	.2	.2	.1	.0	*	.3	4.4	
NW	.0	*	.1	.2	.4	.2	.1	.0	*	.1	5.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.1	.1	.0	.0	.0	*	2.0	
TOT OBS											3872	
TOT PCT	.3	.2	1.2	7.4	11.2	4.8	1.4	.2	.2	.8	72.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1
>5000	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3
>3500	2.4	2.7	2.7	2.7	2.7	2.7	2.7	2.7
>2000	6.5	7.5	7.6	7.6	7.6	7.6	7.6	7.6
>1000	14.9	18.0	18.5	18.6	18.6	18.6	18.7	18.7
>600	19.5	24.3	25.4	25.8	25.9	26.0	26.0	26.0
>300	19.8	25.1	26.4	26.9	27.1	27.2	27.3	27.3
>150	19.8	25.1	26.6	27.1	27.3	27.4	27.4	27.4
>0	19.9	25.3	26.8	27.3	27.5	27.6	27.7	27.7

TOTAL NUMBER OF OBS: 3938

PCT FREQ NH <5/8: 72.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	14.1	18.2	16.2	13.3	9.4	5.9	6.3	6.1	10.3	4312

PERIOD: (PRIMARY) 1906-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	*	*	.1	*	.0	*	.0	.0	.1	
	NO PCP	*	*	*	*	*	.0	.0	.0	.0	*	.1	
	TOT %	*	*	*	*	.1	*	.0	*	.0	*	.2	
1/2<1	PCP	*	*	.1	.1	.1	*	.0	*	.0	*	.3	
	NO PCP	.2	.1	.1	.3	.1	.1	.1	.1	.0	.0	1.0	
	TOT %	.2	.1	.2	.3	.2	.1	.1	.1	.0	*	1.3	
1<2	PCP	.0	*	.1	.1	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.2	.1	.1	.1	.2	.1	.1	.1	.0	*	1.1	
	TOT %	.2	.2	.2	.2	.3	.1	.1	.1	.0	*	1.3	
2<5	PCP	*	*	.2	.1	.1	*	.0	*	.0	*	.6	
	NO PCP	*	*	.1	.1	*	.0	*	*	.0	.0	.3	
	TOT %	.1	.1	.2	.2	.2	*	*	*	.0	*	.8	
5<10	PCP	.8	.7	1.8	2.7	1.5	.5	.2	.3	.0	*	8.6	
	NO PCP	5.7	4.3	5.5	8.3	6.5	3.5	2.7	3.6	.0	.6	40.7	
	TOT %	6.5	5.0	7.3	10.9	8.0	4.0	3.0	3.9	.0	.6	49.3	
10+	PCP	.2	.1	.4	.5	.4	.1	*	*	.0	*	1.8	
	NO PCP	5.6	4.6	7.2	9.5	7.3	4.1	2.6	3.0	.0	1.1	45.2	
	TOT %	5.8	4.7	7.6	10.1	7.8	4.2	2.6	3.1	.0	1.1	47.0	
TOT OBS													8977
TOT PCT		12.8	10.0	15.5	21.8	16.6	8.4	5.7	7.3	.0	1.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	*	.0	.0	.0	*	*	
	4-10	*	*	*	.0	.0	.0	.0	*	.0	*	*	
	11-21	*	*	*	*	*	*	*	.0	.0	*	.1	
	22+	.0	.0	*	*	.1	.0	.0	.0	.0	*	.1	
	TOT %	*	*	*	*	.1	*	*	*	.0	*	.2	
1/2<1	0-3	.0	.0	*	*	.0	*	.0	*	.0	*	.1	
	4-10	.1	.1	.1	*	*	*	*	*	.0	*	.4	
	11-21	.1	*	*	.2	*	*	*	*	.0	*	.4	
	22+	.1	*	*	.1	.1	*	.0	*	.0	*	.3	
	TOT %	.2	.1	.1	.3	.2	.1	*	.1	.0	*	1.2	
1<2	0-3	.0	*	.0	*	*	*	*	*	.0	*	.1	
	4-10	.1	.1	*	*	.1	.1	*	.1	.0	*	.5	
	11-21	.1	*	*	.1	.1	*	*	*	.0	*	.4	
	22+	*	*	.1	*	.1	.0	*	.0	.0	*	.3	
	TOT %	.2	.1	.2	.2	.3	.1	.1	.1	.0	*	1.3	
2<5	0-3	.0	.0	*	.0	.0	*	.0	*	.0	*	*	
	4-10	*	*	*	.1	.1	*	*	*	.0	*	.2	
	11-21	*	.1	.1	.1	.1	*	.0	*	.0	*	.5	
	22+	*	*	.1	.1	.2	*	.0	*	.0	*	.5	
	TOT %	.1	.1	.3	.3	.3	*	*	.1	.0	*	1.2	
5<10	0-3	.7	.7	.5	.6	.4	.3	.4	.3	.0	.7	4.5	
	4-10	2.9	2.7	3.2	3.2	2.6	1.5	1.2	2.0	.0		19.3	
	11-21	2.2	1.3	2.7	4.7	3.1	1.5	1.0	1.2	.0		17.8	
	22+	.9	.1	.6	1.8	1.4	.4	.1	.2	.0		4.9	
	TOT %	6.1	4.8	7.0	10.3	7.5	3.7	2.7	3.6	.0	.7	46.4	
10+	0-3	.5	.3	.5	.4	.3	.3	.3	.2	.0	1.3	4.1	
	4-10	3.1	3.3	4.3	3.8	2.7	1.9	1.5	1.9	.0		22.5	
	11-21	2.6	1.3	2.6	5.0	3.5	1.9	.8	1.4	.0		19.1	
	22+	.2	*	.3	1.5	1.3	.5	.2	.1	.0		4.0	
	TOT %	6.3	5.0	7.7	10.6	7.8	4.6	2.8	3.6	.0	1.3	49.6	
TOT OBS													9975
TOT PCT		13.0	10.1	15.4	21.8	16.1	8.5	5.7	7.5	.0	2.1	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET/NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.5	.3	1.0	7.0	10.5	4.6	1.3	.0	.1	.8	26.3	73.7	1054
06009	.3	.1	1.2	6.2	11.5	4.4	1.3	.4	.3	1.2	26.9	73.1	961
12015	.2	.1	1.4	6.8	8.3	5.1	1.7	.3	.1	.5	24.5	75.5	1114
18021	.2	.2	1.2	7.7	11.8	4.3	.9	.1	.3	1.0	27.6	72.4	1035
TOT													4164
PCT	.3	.2	1.2	6.9	10.5	4.7	1.3	.2	.2	.9	26.3	73.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.1	1.5	1.3	1.1	38.2	57.9	1936
06009	.4	1.3	1.6	1.0	59.0	42.7	2846
12015	.1	.8	1.2	1.3	40.0	56.6	2371
18021	.2	1.4	1.2	1.3	52.2	43.7	3143
TOT							10296
PCT	.2	1.2	1.3	1.2	47.0	49.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET/NM >4/8), BY HOUR

HOUR (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00003	.5	2.1	9.9	17.9	72.2	1001
06009	.3	2.1	9.5	18.9	71.7	919
12015	.2	1.8	9.7	16.2	74.2	1052
18021	.2	2.0	10.6	19.1	70.3	966
TOT						3938
PCT	.3	2.0	9.9	18.0	72.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	*	*	.1	*	*	*		.2
80/84	.0	*	.0	.2	.8	1.5	.9	.3		3.7
75/79	.0	*	.3	1.2	4.7	11.0	6.9	3.5		27.6
70/74	.0	.1	.6	2.3	7.2	9.2	8.7	4.3		32.4
65/69	.0	.1	1.0	2.9	5.3	6.0	6.2	4.1		25.5
60/64	.0	.1	.6	.9	1.9	1.9	1.7	1.3		8.4
55/59	.0	*	.2	.3	.4	.3	.3	.2		1.6
50/54	.0	.0	.0	*	.1	.1	.1	*		.4
45/49	.0	.0	*	.0	.0	*	*	.1		.1
TOTAL									6568	100.0
PCT	.0	.3	2.6	7.8	20.5	29.9	23.0	13.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	*	*	*	*	.0	.0	*	.0	.0
1.1	.6	.7	.6	.3	.1	.1	.4	.0	*
4.9	4.6	5.9	6.0	2.9	.7	.4	1.7	.0	.4
4.5	3.7	5.6	7.8	4.9	1.8	1.3	2.3	.0	.5
2.6	1.5	3.2	4.7	5.2	3.1	2.1	2.3	.0	.8
.3	.2	.3	.9	2.5	2.2	1.2	.6	.0	.3
*	.0	.0	*	.3	.6	.5	.1	.0	.1
.0	.0	.0	.0	*	.1	.1	*	.0	.1
.0	.0	.0	.0	*	.1	.0	.0	.0	*
13.5	10.6	15.7	20.1	16.2	8.6	5.7	7.3	.0	2.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	81	78	73	67	63	54	72.2	2593
06009	89	80	77	72	67	64	55	71.8	3807
12015	89	76	75	71	66	62	52	70.5	3100
18021	87	77	75	70	64	61	45	69.9	4307
TOT	89	79	76	71	65	61	45	71.0	13807

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	14.5	24.3	31.5	20.4	9.3	73	1310
06009	.0	12.6	22.1	29.8	23.8	11.7	74	1744
12015	.0	8.7	19.3	31.3	28.3	14.4	76	1673
18021	.0	8.2	16.9	27.6	28.0	19.2	77	2052
TOT	0	737	1382	2014	1688	958	75	6779

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PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1857-1973

TABLE 17

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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	1	.0	*
11/13	.0	.0	.0	.0	*	*	*	*	*	*	.0	9	*	.1
9/10	.0	.0	.0	.0	.0	*	.1	.1	*	*	.0	22	*	.3
7/8	.0	.0	.0	*	.1	.1	.2	.2	.1	.1	*	55	.0	.7
6	.0	.0	.0	.0	.1	.1	.3	.2	.2	*	.0	71	.0	.9
5	.0	.0	.0	*	.1	.2	.3	.4	.3	*	.0	97	.0	1.3
4	.0	.0	.0	*	.1	.5	.7	.6	.2	*	.0	170	*	2.2
3	.0	.0	.0	*	.4	.7	1.1	1.0	.4	*	.0	272	.1	3.5
2	.0	.0	*	.2	.5	1.2	1.5	1.5	.4	.0	.0	401	.2	5.1
1	.0	*	*	.2	1.0	2.2	2.4	2.9	.3	*	.0	678	.2	8.8
0	.0	.0	.1	.2	1.5	3.0	4.0	2.8	.1	.0	.0	885	.2	11.5
-1	.0	.0	.1	.4	1.9	3.4	5.2	2.4	.1	.0	.0	1020	.1	13.2
-2	*	.0	.1	.5	3.0	3.2	4.8	1.6	*	.0	.0	1016	.1	13.1
-3	.0	*	.1	.8	3.1	2.8	3.7	.6	.0	.0	.0	865	.1	11.0
-4	.0	.1	.1	1.0	2.7	2.3	1.8	.4	*	.0	.0	683	.1	8.5
-5	.0	*	.2	.9	2.2	1.7	1.2	.7	.0	.0	.0	507	.1	6.4
-6	.0	*	.2	1.1	1.4	1.1	.6	.1	.0	.0	.0	354	.0	4.5
-7/-8	*	*	.5	1.5	1.6	.8	.3	.1	.0	.0	.0	384	*	4.8
-9/-10	*	.1	.7	.7	.3	.1	.1	.0	.0	.0	.0	157	.0	1.9
-11/-13	*	.2	.3	.1	.1	*	.0	.0	.0	.0	.0	61	.0	.8
-14/-16	*	.1	*	.1	.0	.0	.0	.0	.0	.0	.0	14	.0	.2
-17/-19	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.1
TOTAL												7728		
PCT	.1	.5	2.2	7.6	20.0	23.6	28.4	15.1	2.2	.2	*	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	NE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	.0	.0	.0	.0	1.3	.2	.9	.1	.0	.0	.0	.0	1.2
1-2	.1	3.1	1.0	.0	.0	.0	4.2	.2	3.4	.8	.0	.0	.0	.0	4.3
3-4	.1	1.3	2.4	.1	.0	.0	3.8	*	1.9	1.3	.0	.0	.0	.0	3.2
5-6	.0	.1	2.0	.2	.0	.0	2.4	.0	.1	.6	*	.0	.0	.0	.7
7	.0	*	.6	.1	.0	.0	.7	.0	.1	.2	*	.0	.0	.0	.4
8-9	.0	.0	.1	*	.0	.0	.1	.0	.0	*	.0	.0	.0	.0	*
10-11	.0	.0	*	*	.0	.0	.1	.0	.0	*	.0	.0	.0	.0	*
12	.0	.0	.0	.0	*	.0	*	.0	.0	*	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.4	6.3	3.1	.1	.0	*	*	9.9
TOT PCT	.5	5.5	6.0	.5	*	.0	12.6								

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SE	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.5	*	.0	.0	.0	1.9	.2	1.2	.1	.0	.0	.0	.0	1.5
1-2	.2	3.8	.8	.0	.0	.0	4.8	.1	3.2	1.2	.0	.0	.0	.0	4.5
3-4	.1	2.7	2.5	.3	.0	.0	5.5	.1	1.7	4.3	.3	.0	.0	.0	6.4
5-6	.0	.3	1.9	.1	.0	.0	2.4	.0	.6	3.9	.8	.1	.0	.0	5.4
7	.0	.1	.7	.1	.1	.0	.9	*	.1	1.5	.8	.1	.0	.0	2.5
8-9	.0	.0	.2	.2	*	.0	.4	.0	.0	.4	.5	.1	.0	.0	.9
10-11	.0	.0	*	.1	.0	.0	.2	.0	*	*	.4	.2	*	.0	.7
12	.0	.0	.0	*	.0	.0	*	.0	*	*	.2	*	.0	.0	.3
13-16	.0	.0	*	.1	.0	.0	.1	.0	.0	.0	.2	.0	.0	.0	.3
17-19	.0	.0	.0	*	.0	.0	*	.0	.0	.0	*	*	.0	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	*	*	.1
26-32	.0	.0	.0	.0	*	*	*	.0	.0	.0	.0	.0	*	*	*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	8.3	6.2	1.0	.1	*	16.3	.3	6.9	11.3	3.3	.6	*	*	22.7

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	1.1	.7	.0	.0	.0	1.3	.2	.6	.1	.0	.0	.0	.8	
1-2	.1	2.9	1.0	.0	.0	.0	3.9	.1	1.5	.6	.0	.0	.0	2.2	
3-4	.0	1.5	2.9	.4	.0	.0	4.9	.0	.8	1.8	.1	.0	.0	2.7	
5-6	.0	.1	2.6	.3	.1	.0	3.4	.0	.2	1.0	.2	.0	.0	1.4	
7	.0	.0	.9	.7	.2	.0	1.8	.0	.0	.3	.5	.0	.0	.9	
8-9	.0	.0	.3	.6	.1	.0	1.0	.0	.0	.1	.1	.1	.0	.3	
10-11	.0	.0	.0	.2	.1	.0	.4	.0	.0	.0	.0	.0	.0	.1	
12	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
13-16	.0	.0	.0	.3	.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	5.6	7.8	2.9	.7	.1	17.5	.3	3.1	3.8	1.1	.2	.0	8.5	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.5	.0	.0	.0	.0	.7	.0	.7	.0	.0	.0	.0	.7	
1-2	.1	1.4	.3	.0	.0	.0	1.8	.1	1.4	.4	.0	.0	.0	2.0	
3-4	.0	.6	.5	.1	.0	.0	1.2	.0	.5	1.3	.1	.0	.0	1.9	
5-6	.0	.1	.5	.1	.0	.0	.7	.0	.0	.6	.0	.0	.0	.6	
7	.0	.0	.1	.2	.0	.0	.3	.0	.0	.2	.0	.0	.0	.3	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.6	1.5	.5	.0	.0	4.9	.2	2.7	2.6	.2	.0	.0	5.6	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	4.4	7.6	.3	.0	.0	.0	12.3	085
1-2	1.1	20.5	6.0	.0	.0	.0	27.6	
3-4	.3	10.8	16.8	1.3	.0	.0	29.2	
5-6	.1	1.6	13.0	2.0	.2	.0	16.9	
7	.1	.3	4.5	2.5	.4	.0	7.7	
8-9	.0	.0	1.1	1.5	.3	.0	2.9	
10-11	.0	.0	.2	1.0	.3	.0	1.6	
12	.0	.0	.1	.3	.1	.0	.5	
13-16	.0	.0	.1	.6	.2	.0	.8	
17-19	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.1	.0	.1	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.1	.1	.1	.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.1	.1	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.0	40.8	42.0	9.3	1.7	.2	100.0	3277

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	9.0	12.3	7.2	2.9	1.0	.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1339	4
6-7	.0	1.4	7.6	11.2	6.0	2.4	1.4	.4	.8	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	1228	6
8-9	.0	.4	2.3	3.9	4.6	2.8	2.0	1.0	1.0	.3	.0	.0	.1	.0	.0	.0	.0	.0	.0	732	7
10-11	.0	.4	.5	1.4	1.1	.8	.9	.4	.6	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	265	9
12-13	.0	.0	.2	.2	.4	.2	.3	.2	.2	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	83	10
>13	.0	.0	.0	.1	.3	.1	.0	.1	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	41	13
INDEY	1.6	.5	1.0	.8	.5	.2	.2	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	223	3
TOTAL PCT	3.5	11.7	23.9	24.9	15.9	7.5	5.2	2.4	2.9	.8	.4	.3	.4	.1	.0	.0	.0	.0	.0	100.0	6

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1857-1973

AREA 0005 BRISBANE
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TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH														
SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	*
83/84	.8	1.2	.8	.2	.0	.0	.0	.0	.0	.0	.0	.3	33	.3
81/82	6.3	5.9	5.8	1.4	.0	.0	.0	.0	.0	.1	.3	1.3	209	1.7
79/80	20.0	26.7	20.1	6.3	1.2	.0	.0	.0	.1	1.1	1.3	9.0	835	6.8
77/78	39.6	36.2	37.5	21.6	4.3	.6	.1	.0	.1	1.1	7.8	24.1	1712	13.9
75/76	24.4	18.8	24.1	33.0	17.5	3.9	1.0	.6	1.4	6.6	24.6	39.0	1946	15.8
73/74	6.5	8.3	6.5	23.8	32.9	15.8	2.5	3.0	4.7	21.0	32.3	17.0	1802	14.6
71/72	1.4	1.8	3.2	8.9	22.2	30.7	15.9	9.5	18.6	32.3	22.1	6.5	1825	14.8
69/70	.5	.4	1.1	2.5	11.0	26.9	32.0	27.2	28.6	25.2	8.4	1.7	1753	14.2
67/68	.0	.2	.5	1.1	6.8	12.3	26.9	28.8	29.3	9.9	2.8	.7	1265	10.2
65/66	.1	.2	.3	.8	2.4	4.9	12.4	16.7	13.7	2.8	.3	.4	582	4.7
63/64	.0	.0	.1	.4	1.4	3.7	4.9	7.4	2.2	.8	.1	.0	225	1.8
61/62	.0	.0	.0	.0	.2	.7	1.2	5.1	1.0	.1	.0	.0	88	.7
59/60	.0	.0	.0	.0	.2	.4	1.9	.9	.2	.0	.0	.0	39	.3
57/58	.0	.0	.0	.0	.0	.1	1.1	.7	.0	.1	.0	.0	21	.2
55/56	.0	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	3	*
53/54	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	2	*
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	981	931	1078	1021	1214	1079	1136	1015	1032	1005	958	893	12343	100.0
MEAN	77.3	77.4	77.0	75.0	72.4	70.2	68.2	67.5	68.7	71.1	73.4	75.6	72.8	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1011	1010	1009	1009	1012	1010	1010	1010	1010	624
FEB	1013	1012	1012	1012	1013	1012	1011	1012	1012	632
MAR	1015	1014	1012	1013	1015	1013	1013	1013	1014	697
APR	1018	1016	1015	1016	1017	1016	1015	1016	1016	702
MAY	1019	1016	1016	1016	1018	1016	1016	1016	1017	741
JUN	1019	1017	1017	1016	1020	1017	1018	1018	1018	656
JUL	1020	1018	1017	1017	1019	1018	1018	1019	1018	735
AUG	1019	1018	1017	1017	1018	1017	1017	1018	1018	657
SEP	1018	1018	1016	1018	1018	1019	1018	1019	1018	684
OCT	1019	1016	1015	1016	1019	1016	1016	1016	1017	664
NOV	1016	1016	1012	1014	1014	1015	1014	1015	1014	592
DEC	1014	1012	1012	1012	1014	1012	1012	1012	1012	545
ANN	1017	1015	1014	1015	1016	1015	1015	1015	1015	7949
OBS	1023	997	1370	661	1145	776	1778	599		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	985	993	1001	1008	1011	1014	1018	1021	1023
FEB	990	996	1004	1009	1012	1016	1019	1022	1024
MAR	991	999	1003	1011	1014	1017	1021	1024	1027
APR	999	1003	1007	1013	1016	1019	1023	1025	1028
MAY	1001	1005	1008	1013	1017	1020	1025	1027	1028
JUN	997	1004	1008	1013	1019	1022	1027	1029	1032
JUL	1001	1006	1010	1015	1019	1022	1025	1027	1031
AUG	998	1003	1010	1015	1018	1021	1025	1027	1030
SEP	997	1001	1008	1014	1018	1022	1025	1028	1030
OCT	1001	1004	1008	1014	1017	1020	1023	1025	1028
NOV	999	1003	1005	1011	1014	1018	1022	1025	1031
DEC	1001	1003	1005	1009	1012	1015	1019	1022	1025

PERIOD: (PRIMARY) 1914-1973
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG #CPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.0	.0	.6	.0	.0	.0	.0	2.3	.0	2.9	5.0	.0	4.0	.0	86.4
NE	8.5	.8	2.5	.0	.0	.0	.0	11.0	.0	1.9	1.7	.0	5.0	.0	81.3
E	5.2	3.7	1.8	.0	.0	.0	.0	10.8	1.2	.0	6.8	.0	2.2	.0	79.1
SE	3.7	5.9	1.7	.0	.0	.0	.0	11.3	.7	1.5	1.5	.0	3.1	.0	81.9
S	3.1	6.1	2.4	.0	.0	.0	.0	11.0	.6	3.2	2.8	.0	3.2	.0	79.3
SW	4.7	6.9	4.3	.0	.0	.0	.0	15.9	.0	4.7	1.7	.0	2.1	.0	77.3
W	3.0	11.9	6.0	.0	.0	.0	.0	20.9	.0	3.0	3.0	.0	.0	.0	73.1
NW	1.4	.0	4.2	.0	.0	.0	.0	4.2	2.8	.0	14.0	.0	1.4	.0	77.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	.0	.0	.0	.0	85.7
TOT PCT	4.0	3.6	2.1	.0	.0	.0	.0	9.4	.5	2.4	3.6	.0	3.3	.0	81.2
TOT OBS	796														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMDKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.7	3.7	3.2	.0	.0	.0	.0	9.7	.5	.0	2.3	.0	4.1	.0	83.4
06009	6.7	2.5	1.3	.0	.0	.0	.0	10.5	.4	1.3	5.0	.0	4.6	.0	79.0
12015	2.3	3.8	2.3	.0	.0	.0	.0	7.5	.8	6.8	3.0	.0	.8	.0	81.2
18021	3.5	4.8	1.7	.0	.0	.0	.0	10.0	.4	3.5	3.5	.0	2.2	.0	80.8
TOT PCT	4.3	3.7	2.1	.0	.0	.0	.0	9.7	.5	2.4	3.5	.0	3.2	.0	81.0
TOT OBS	817														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	8.0	8.8	1.7	.0	.0		19.6	12.2		21.3	21.3	13.1	16.4	11.4	27.8	20.4	24.5
NE	.7	8.6	8.3	.9	.2	.0		16.6	11.5		11.0	17.9	24.0	22.0	16.1	20.1	9.5	10.2
E	.4	7.1	2.2	.2	.1	.0		10.0	9.5		7.8	8.6	14.9	10.8	7.9	11.1	9.0	7.3
SE	1.0	8.1	6.1	1.0	.1	.0		16.3	11.2		9.9	16.4	19.0	22.4	17.1	13.7	15.8	14.5
S	1.0	6.1	10.0	3.1	.8	.2		21.1	15.1		28.9	24.5	23.0	19.8	34.3	17.1	16.6	12.9
SW	1.1	3.1	3.3	.7	*	*		8.1	11.6		12.7	6.2	3.3	4.2	6.1	4.7	12.4	15.3
W	.5	1.1	.5	.0	.0	.0		2.2	7.2		1.9	1.2	1.1	2.4	.0	2.6	3.6	4.0
NW	.5	2.5	1.4	.3	.0	.0		4.7	10.1		5.6	3.1	.9	2.0	2.9	3.0	9.0	10.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.0		.9	.8	.8	.0	4.3	.0	3.5	1.1
TOT OBS	98	582	503	103	15	3	1304		11.9		116	242	249	125	70	117	199	186
TOT PCT	7.5	44.6	38.6	7.9	1.2	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	3.9	10.2	5.3	.3	.0			19.6	12.2		21.3	14.2	21.7	22.3
NE	3.7	9.2	3.2	.5	.0			16.6	11.5		15.6	23.3	18.6	9.9
E	3.6	5.1	1.1	.1	.1			10.0	9.5		8.3	13.5	9.9	8.2
SE	4.1	9.0	2.9	.3	*			16.3	11.2		14.3	20.1	15.0	15.2
S	3.2	10.0	6.1	1.5	.3			21.1	15.1		23.9	21.9	23.5	14.8
SW	2.2	3.8	1.8	.2	*			8.1	11.6		8.3	3.6	5.2	13.6
W	1.1	1.0	*	.0	.0			2.2	7.2		1.5	1.5	1.6	3.6
NW	1.5	2.5	.6	.1	.0			4.7	10.1		3.9	1.3	2.9	9.6
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	1.3							1.3	.0		.8	.5	1.6	2.3
TOT OBS	321	663	274	40	6	1304			11.9		358	374	187	385
TOT PCT	24.6	50.8	21.0	3.1	.5			100.0			100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00603	.8	6.1	44.4	38.5	7.8	1.7	.6	12.3	100.0	358
06609	.5	2.4	43.6	42.8	8.6	1.9	.3	13.0	100.0	374
12615	1.6	8.0	42.8	35.3	12.3	.0	.0	12.0	100.0	187
18621	2.3	9.1	46.8	36.1	5.2	.5	.0	10.3	100.0	385
TOT	17	81	982	503	103	15	3	11.9		1304
PCT	1.3	6.2	44.6	38.6	7.9	1.2	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.6	4.4	3.6	1.7		3.1
NE	6.7	3.6	1.9	2.3		3.4
E	2.7	1.7	3.2	3.0		4.9
SE	2.7	2.7	6.4	3.6		5.2
S	6.5	5.6	7.7	7.8		5.0
SW	2.0	1.4	2.7	.5		4.0
W	.7	.5	.0	.0		2.1
NW	2.6	.7	.5	.4		2.7
VAR	.0	.0	.0	.0		.0
CALM	.6	.9	.0	.0		2.4
TOT OBS	109	71	86	64	330	4.2
TOT PCT	33.0	21.5	26.1	19.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.7	1.1	.7	.3	.0	.0	.0	.0	19.5
NE	.0	.0	.3	.5	.4	1.1	.0	.0	.0	.0	.0	11.8
E	.0	.0	.0	.9	1.7	1.1	.4	.5	.3	.0	.0	5.5
SE	.0	.0	.0	1.6	4.2	2.0	.5	.2	.0	.0	.0	7.0
S	.0	.3	.5	4.1	5.9	1.4	.3	.0	.0	.0	.0	14.8
SW	.0	.0	.4	.4	.9	.3	.0	.0	.0	.0	.0	4.8
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2
NW	.0	.0	.0	.1	.0	.5	.0	.0	.0	.0	.0	3.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5
TOT OBS	0	1	5	27	47	23	5	2	2	1	217	330
TOT PCT	.0	.3	1.5	8.2	14.2	7.0	1.5	.6	.6	.3	65.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.3	.6	.9	.9	.9	.9	.9	.9
= OR >5000	.9	1.2	1.5	1.5	1.5	1.5	1.5	1.5
= OR >3500	2.1	2.6	2.9	2.9	2.9	2.9	2.9	2.9
= OR >2000	7.6	9.1	9.7	9.7	9.7	9.7	9.7	9.7
= OR >1000	17.6	22.1	23.5	23.5	23.5	23.5	23.5	23.5
= OR >600	23.2	30.0	31.8	31.8	31.8	31.8	31.8	31.8
= OR >300	23.2	30.9	32.9	33.2	33.2	33.2	33.2	33.2
= OR >150	23.2	30.9	32.9	33.2	33.2	33.2	33.2	33.2
= OR >0	23.2	30.9	32.9	33.2	33.2	33.2	33.2	33.2
TOTAL	79	105	112	113	113	114	115	115

TOTAL NUMBER OF OBS: 340

PCT FREQ NH <5/8: 66.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	11.4	20.2	15.0	11.7	7.3	5.4	6.7	6.2	16.1	.0	386

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.1	.0	.0	.0	.1	.0	.0	.0	.0	.3	
	TOT %	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.4	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.6	.3	.7	.4	1.1	.0	.0	.2	.0	.0	3.3	
	TOT %	.6	.3	.7	.4	1.1	.0	.0	.2	.0	.0	3.3	
1<2	PCP	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.3	
	NO PCP	.8	.3	.0	.1	.3	.0	.0	.3	.0	.0	1.8	
	TOT %	.8	.3	.1	.2	.3	.0	.0	.3	.0	.0	2.0	
2<5	PCP	.0	.0	.2	.2	.3	.1	.1	.0	.0	.0	.9	
	NO PCP	.1	.0	.3	.4	.5	.0	.0	.3	.0	.0	1.3	
	TOT %	.1	.0	.5	.6	.8	.1	.1	.3	.0	.0	2.4	
5<10	PCP	.4	1.7	.6	1.5	1.8	1.0	.3	.1	.0	.0	7.4	
	NO PCP	6.4	3.3	2.6	6.3	7.2	2.0	.4	1.3	.0	.0	29.5	
	TOT %	6.8	5.0	3.2	7.8	9.0	3.0	.7	1.4	.0	.0	36.9	
10+	PCP	.1	.0	.1	.1	.1	.1	.1	.1	.0	.0	.8	
	NO PCP	11.8	9.5	5.5	7.7	11.2	4.0	1.2	2.3	.0	.9	54.3	
	TOT %	11.9	9.5	5.6	7.9	11.3	4.2	1.4	2.4	.0	.9	55.0	
TOT OBS													794
TOT PCT													
		20.3	15.1	10.2	16.9	22.7	7.3	2.1	4.5	.0	.9	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.1	.2	.2	.6	.1	.0	.2	.0	.0	1.3	
	11-21	.4	.1	.4	.2	.5	.0	.0	.0	.0	.0	1.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.5	.2	.6	.4	1.0	.1	.0	.2	.0	.0	2.9	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.3	.1	.1	.2	.4	.1	.0	.2	.0	.0	1.2	
	11-21	.5	.4	.0	.0	.1	.0	.0	.1	.0	.0	1.1	
	22+	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.8	.6	.2	.2	.5	.1	.0	.3	.0	.1	2.7	
2<5	0-3	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	
	4-10	.1	.3	.2	.3	.2	.2	.0	.0	.0	.0	1.1	
	11-21	.0	.0	.1	.3	.5	.1	.1	.1	.0	.0	1.1	
	22+	.1	.2	.2	.0	.1	.1	.0	.0	.0	.0	.7	
	TOT %	.2	.5	.4	.6	.9	.3	.1	.2	.0	.0	3.2	
5<10	0-3	.2	.2	.2	.9	.3	.2	.0	.0	.0	.3	2.4	
	4-10	3.6	2.8	2.0	2.9	1.7	1.2	.4	.9	.0	.0	15.4	
	11-21	1.8	1.1	.7	2.6	4.9	1.4	.3	.3	.0	.0	13.1	
	22+	.5	.4	.0	.4	1.5	.3	.0	.1	.0	.0	3.2	
	TOT %	6.1	4.6	2.8	6.8	8.4	3.1	.7	1.3	.0	.3	34.1	
10+	0-3	.7	.5	.4	.2	.7	.5	.5	.4	.0	.8	4.7	
	4-10	3.9	4.9	4.0	4.3	3.5	1.8	.9	1.0	.0	.0	24.5	
	11-21	6.2	4.4	1.1	3.5	4.8	2.3	.2	1.2	.0	.0	23.6	
	22+	1.0	.3	.1	.2	1.8	.3	.0	.3	.0	.0	4.0	
	TOT %	11.7	10.1	5.6	8.2	10.8	4.9	1.6	2.9	.0	.8	56.7	
TOT OBS													961
TOT PCT													
		19.4	16.1	9.7	16.1	21.7	8.6	2.4	4.8	.0	1.2	100.0	

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1858-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL 116	NH < 5/8 ANY HGT	TOTAL OBS
00003	.0	.8	.8	7.5	15.0	5.8	.8	.0	.0	.0	30.8	69.2	120
06009	.0	.9	1.8	9.9	10.8	1.8	1.8	.0	1.8	.9	29.7	70.3	111
12015	.0	.0	.0	10.9	14.1	6.3	.0	.0	.0	.0	31.3	68.8	64
18021	.0	.0	2.7	1.4	12.2	13.5	2.7	2.7	.0	.0	35.1	64.9	74
TOT	0	2	5	28	48	23	5	2	2	1	116	253	369
PCT	.0	.5	1.4	7.6	13.0	6.2	1.4	.5	.5	.3	31.4	68.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.4	1.2	2.0	1.6	27.7	67.2	256
06009	.4	5.0	2.9	5.4	34.6	51.8	280
12015	.0	4.1	1.4	2.7	35.1	56.8	148
18021	.7	1.7	3.7	3.0	37.9	53.0	298
TOT	4	28	26	32	333	559	982
PCT	.4	2.9	2.6	3.3	33.9	56.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.0	1.8	10.5	21.9	67.5	114
06009	.0	3.0	16.8	15.8	67.3	101
12015	.0	.0	13.6	18.6	67.8	59
18021	.0	3.0	6.1	34.8	59.1	66
TOT	0	7	41	75	224	340
PCT	.0	2.1	12.1	22.1	65.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
84/89	.0	.0	.0	.2	.0	.2	.4	.2	5	1.0
80/84	.0	.0	.0	.4	1.6	3.2	1.0	.2	32	6.5
75/79	.0	.2	.2	1.6	3.8	13.9	13.9	5.2	193	38.9
70/74	.0	.0	.4	1.0	12.5	12.5	10.1	6.9	215	43.3
65/69	.0	.0	.0	.4	2.4	3.8	2.0	1.4	50	10.1
TOTAL	0	1	3	15	102	167	136	69	496	100.0
PCT	.0	.2	.6	3.6	20.6	33.7	27.4	13.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
.3	.3	.0	.0	.0	.2	.0	.2	.0	.0	.0
3.1	1.5	.5	.3	.5	.1	.0	.5	.0	.0	.0
10.7	8.2	3.2	5.3	6.8	2.0	.7	1.8	.0	.2	.2
5.2	4.0	6.0	9.1	12.8	3.8	.6	1.1	.0	.8	.8
.4	.7	.3	1.7	4.5	1.6	.4	.4	.0	.2	.2
19.8	14.8	10.0	16.4	24.5	7.7	1.6	4.0	.0	1.2	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	90	82	80	75	69	67	66	75.2	348
06009	90	85	81	75	70	67	66	75.2	366
12015	79	78	78	73	68	67	64	73.2	186
18021	89	80	78	73	68	66	63	73.1	389
TOT	90	82	80	74	69	67	64	74.3	1289

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	5.4	19.6	43.2	21.6	10.1	75	148		
06009	.0	5.4	28.2	30.9	22.8	12.8	75	149		
12015	.0	5.2	27.3	26.0	26.6	13.0	76	77		
18021	.0	1.4	10.0	32.1	36.4	20.0	81	140		
TOT	0	22	106	175	139	72	77	514		

PERIOD: (PRIMARY) 1914-1973
(OVER-ALL) 1850-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
11/13	.0	.0	.0	.1	.0	.0	.3	3	.1	.3
9/10	.0	.0	.0	.3	.3	.0	.1	5	.1	.6
7/8	.0	.1	.1	.4	.6	.4	.0	12	.0	1.7
6	.0	.1	.1	.3	.1	.3	.0	7	.0	1.0
5	.1	.0	.7	1.3	.9	.0	.0	21	.0	3.0
4	.0	.1	1.3	2.5	.1	.0	.0	28	.0	4.1
3	.0	.4	1.3	3.0	.4	.0	.0	36	.1	5.1
2	.0	.6	3.8	3.2	.3	.0	.0	54	.3	7.5
1	.1	.3	6.5	2.3	.0	.0	.0	64	.3	9.0
0	.1	3.0	9.7	2.6	.1	.0	.0	108	1.0	14.6
-1	.4	2.3	7.5	2.6	.1	.0	.0	90	.6	12.3
-2	.3	4.3	5.9	1.9	.0	.0	.0	86	.9	11.6
-3	.6	2.6	2.6	.6	.0	.0	.0	45	.0	6.5
-4	.7	3.8	3.6	.3	.0	.0	.0	58	.0	8.4
-5	1.3	2.5	1.3	.1	.0	.0	.0	36	.0	5.2
-6	.3	1.3	.0	.0	.0	.0	.0	11	.0	1.6
-7/-8	.7	1.6	.1	.0	.0	.0	.0	17	.1	2.3
-9/-10	.7	.3	.1	.0	.0	.0	.0	8	.0	1.2
TOTAL	38	163	150	310	21	5	3	690	23	665
PCT	5.5	23.6	44.9	21.7	3.0	.7	.4	100.0	3.6	96.4

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	1.1	.7	.0	.0	.0	.0	1.8	.4	.1	.0	.0	.0	.0	.4	
1-2	.0	2.1	3.5	.0	.0	.0	5.6	.4	2.7	1.5	.0	.0	.0	4.7	
3-4	.0	1.3	4.7	.6	.0	.0	6.6	.0	2.2	3.9	.4	.0	.0	6.5	
5-6	.0	.0	1.6	1.0	.0	.0	2.6	.0	.4	1.6	.4	.0	.0	2.3	
7	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.1	4.1	11.1	1.9	.0	.0	18.2	.8	5.4	7.1	.8	.0	.0	14.1	

HGT	E							SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	1.6	.0	.0	.0	.0	1.6	
1-2	.3	2.8	.4	.0	.0	.0	3.4	.4	2.2	.6	.0	.0	.0	3.2	
3-4	.0	2.3	1.0	.0	.0	.0	3.3	.0	2.4	1.7	.4	.0	.0	4.5	
5-6	.0	.4	.3	.4	.0	.0	1.0	.0	.4	4.4	.2	.0	.0	4.9	
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	6.8	2.0	.4	.4	.0	9.8	.4	6.6	6.7	1.0	.0	.0	14.7	

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.1	.9	.3	.0	.0	.0		2.2	.4	.6	.1	.0	.0	.0		1.1
1-2	.0	2.7	1.8	.0	.0	.0		4.5	.1	.4	1.2	.0	.0	.0		1.7
3-4	.0	2.8	6.5	1.7	.0	.0		10.9	.4	.4	2.7	.1	.0	.0		3.5
5-6	.0	.6	3.4	1.5	.0	.0		5.6	.0	.1	.9	.1	.0	.0		1.1
7	.0	.0	1.3	1.7	.0	.0		3.0	.0	.0	.4	.0	.0	.0		.4
8-9	.0	.4	.5	.4	.0	.0		1.3	.0	.0	.2	.0	.0	.0		.2
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.4	.0	.0	.0		.4
13-16	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.1	.0	.0		.1
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.6		.6	.0	.0	.0	.0	.0	.1		.1
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.1	7.3	13.8	5.6	.0	.6		28.4	.8	1.5	5.8	.3	.0	.1		8.5

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.8	.0	.0	.0	.0		.8	.4	.4	.0	.0	.0	.0		.7	
1-2	.3	.0	.4	.0	.0	.0		.6	.0	.0	.4	.0	.0	.0		.4	
3-4	.0	.0	.0	.0	.0	.0		.0	.0	.7	.4	.0	.0	.0		1.2	
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.4	.1	.0	.0		.4	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.3	.0	.0	.0	.0	.0		.3	.1	.0	.0	.0	.0	.0		.1	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.4	.1	.0	.0		.4	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.5	.8	.4	.0	.0	.0		1.7	.4	1.1	1.5	.2	.0	.0		3.2	98.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.3	6.4	.4	.0	.0	.0	12.1	
1-2	1.4	13.1	9.6	.0	.0	.0	24.1	
3-4	.4	12.1	20.6	3.2	.0	.0	36.2	
5-6	.0	1.8	12.4	3.5	.0	.0	17.7	
7	.0	.0	3.2	2.1	.0	.0	5.3	
8-9	.0	.4	1.1	.4	.0	.0	1.8	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.4	.0	.0	.0	.0	.0	.7	
13-16	.0	.0	.4	.7	.0	.0	1.1	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.4	.0	.4	
26-32	.0	.0	.0	.0	.0	.7	.7	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.4	33.7	47.9	9.9	.4	.7	100.0	282

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.1	6.3	15.1	6.6	4.5	1.2	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	121	4
6-7	.0	1.2	8.2	13.4	8.2	2.7	1.5	.3	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	127	6
8-9	.0	.3	2.4	9.1	4.2	1.2	.3	.3	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	48	7
10-11	.0	.0	.0	.9	.6	.9	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	10	9
12-13	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
>13	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	2	20
INDET	1.5	1.5	1.5	1.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	3
TOTAL	12	31	91	98	60	21	7	3	2	2	0	1	3	0	0	0	0	0	0	331	5
PCT	3.6	9.4	27.5	29.6	18.1	6.3	2.1	.9	.6	.6	.0	.3	.9	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1876-1969

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	5.3	.6	.0	.0	.0	.0	.0	5.9	.0	3.6	1.7	.0	3.4	.0	85.5
NE	4.6	2.7	2.1	.0	.0	.0	.0	9.4	5.0	1.0	3.7	.0	2.5	.0	78.4
E	3.5	6.5	1.3	.0	.0	.0	.0	11.2	.9	.0	.9	.0	1.7	.0	85.3
SE	4.6	5.3	.7	.0	.0	.0	.0	10.6	1.4	.7	3.5	.0	1.4	.0	82.4
S	6.5	8.1	1.9	.0	.0	.0	.0	16.6	6.1	3.0	3.5	.0	5.1	.0	66.4
SW	3.1	9.2	1.8	.0	.0	.0	.0	14.0	.9	3.9	.0	.0	3.5	.0	77.6
W	2.9	5.8	.0	.0	.0	.0	.0	8.7	.0	8.7	.0	.0	5.8	.0	76.8
NW	4.0	.0	.0	.0	.0	.0	.0	4.0	.0	6.4	.0	3.2	.0	.0	86.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	4.7	4.9	1.2	.0	.0	.0	.0	10.8	2.5	2.2	2.3	.1	2.9	.0	79.3
TOT OBS:	768														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000	4.3	5.7	.0	.0	.0	.0	.0	10.0	4.7	.0	1.9	.5	3.8	.0	79.1
0600	3.8	4.6	.4	.0	.0	.0	.0	8.9	2.1	1.3	3.8	.0	3.8	.0	80.2
1200	6.7	4.5	5.2	.0	.0	.0	.0	16.4	1.5	6.7	1.5	.0	.7	.0	73.9
1800	5.4	5.0	.5	.0	.0	.0	.0	10.9	1.0	4.0	1.5	.0	2.0	.0	80.7
TOT PCPN TOT OBS:	4.8	5.0	1.1	.0	.0	.0	.0	11.0	2.4	2.6	2.3	.1	2.8	.0	79.0
	784														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	6.9	6.8	.7	.1	.0		14.8	11.4		13.5	14.5	8.7	18.8	14.7	19.0	19.7	14.2
NE	.9	8.4	5.6	.8	.0	.0		15.7	10.3		14.3	16.7	19.5	19.2	13.7	17.1	12.1	11.4
E	1.5	8.6	4.7	.6	.3	.0		15.7	10.5		7.9	14.0	20.0	16.5	15.4	18.5	15.9	15.4
SE	1.0	6.7	8.0	3.2	.4	.1		19.4	14.2		13.9	23.8	23.4	28.1	13.7	19.4	13.9	14.5
S	.6	4.9	9.1	4.0	.6	.1		19.3	16.2		23.8	21.8	22.4	11.6	29.5	13.0	17.9	15.4
SW	.4	2.7	3.2	.9	.1	.0		7.4	13.1		11.9	4.2	9.9	3.7	7.9	10.2	7.9	12.7
W	.5	1.6	.3	.0	.0	.0		2.4	6.2		4.0	1.0	1.1	.8	1.4	.0	5.1	4.9
NW	.6	2.2	1.2	.0	.0	.0		4.0	8.4		8.3	2.7	1.1	1.2	2.4	1.9	5.8	9.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.1		2.4	1.5	.0	.0	1.4	.9	1.7	2.5
TOT OBS	86	502	464	122	19	2	1195		12.3		126	204	228	121	73	108	179	162
TOT PCT	7.2	42.0	38.8	10.2	1.6	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	3.3	8.7	2.6	.2	.0			14.8	11.4	14.1	12.2	17.3	17.0
NE	4.3	9.7	1.4	.3	.0			15.7	10.3	15.8	19.4	15.7	11.8
E	4.9	8.4	1.8	.5	.1			15.7	10.5	11.7	18.8	17.3	15.7
SE	3.4	9.3	5.1	1.4	.2			19.4	14.2	20.0	25.0	17.1	14.2
S	2.5	8.4	6.1	2.0	.3			19.3	16.2	22.6	18.6	19.6	16.7
SW	1.3	3.7	2.3	.1	.0			7.4	13.1	7.1	3.9	9.3	10.2
W	1.5	.9	.0	.0	.0			2.4	6.2	2.1	1.0	.6	5.0
NW	1.7	2.2	.2	.0	.0			4.0	8.4	4.8	1.1	2.1	7.3
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	1.3							1.3	.1	1.8	.0	1.1	2.1
TOT OBS	286	614	233	54	8	1195			12.3	330	349	181	335
TOT PCT	23.9	51.4	19.5	4.5	.7			100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				40+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
00003	1.8	7.9	42.7	38.8	7.6	1.2	.0	11.4	100.0	330	
06009	.0	4.6	39.8	43.0	10.3	2.3	.0	12.8	100.0	349	
12015	1.1	6.1	35.9	40.9	14.4	1.1	.6	13.6	100.0	181	
18021	2.1	5.4	46.9	33.4	10.4	1.5	.3	11.9	100.0	335	
TOT	15	71	502	464	122	19	2	12.3		1195	
PCT	1.3	5.9	42.0	38.8	10.2	1.6	.2	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	7.3	3.1	1.9	.7		2.5
NE	4.1	2.5	6.0	3.0		4.8
E	5.1	3.7	4.6	2.6		4.3
SE	2.9	3.1	4.5	4.7		3.3
S	5.0	4.3	9.0	6.9		5.3
SW	3.4	1.1	2.6	.5		3.6
W	.3	1.1	.4	.6		4.5
NW	1.6	1.0	.7	.9		4.0
VAR	.0	.0	.0	.0		.0
CALM	.9	.3	.3	.3		3.1
TOT OBS	105	69	103	66	343	4.4
TOT PCT	30.6	20.1	30.0	19.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL
	149	299	599	999	1999	3499	4999	6499	7999			OBS
N	.0	.0	.0	.2	.8	.5	.3	.0	.0	.0	10.6	
NE	.0	.0	.3	1.5	1.5	.9	.6	.0	.0	.0	10.6	
E	.0	.0	.0	1.9	2.3	.6	.6	.0	.0	.0	10.1	
SE	.0	.0	.3	1.1	2.8	2.0	.4	.0	.0	.0	8.2	
S	.0	.0	.8	3.1	4.6	2.6	1.4	.0	.0	.0	12.8	
SW	.0	.0	.1	.6	.9	.7	.0	.0	.0	.0	5.4	
W	.0	.0	.0	.0	.6	.0	.3	.0	.0	.0	1.5	
NW	.0	.0	.0	.3	.0	.0	.0	.3	.0	.0	3.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.3	.3	.0	.0	.0	1.2	
TOT OBS	0	0	5	30	46	26	13	0	1	2	220	343
TOT PCT	.0	.0	1.5	8.7	13.4	7.6	3.8	.0	.3	.6	64.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)				
	>10	>5	>2	>1	>1/2
>6500	.9	.9	.9	.9	.9
>5000	.9	.9	.9	.9	.9
>3500	.9	.9	.9	.9	.9
>2000	9.5	11.8	12.1	12.1	12.1
>1000	18.8	25.1	25.4	25.4	25.4
>600	23.4	31.8	33.8	34.1	34.4
>300	24.0	32.7	35.0	35.3	35.8
>150	24.0	32.7	35.0	35.3	35.8
>0	24.0	32.7	35.0	35.3	35.8
TOTAL	83	113	121	122	124

TOTAL NUMBER OF OBS: 346

PCT FREQ NH <5/8: 64.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL
7.3	17.5	16.3	13.0	9.5	5.0	6.8	10.5	14.0	.0	399

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	
1/2<1	PCP	.0	.0	.1	.1	.2	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.6	.1	1.1	.3	.0	.0	.0	.0	.0	2.1	
	TOT %	.0	.6	.3	1.2	.5	.0	.0	.0	.0	.0	2.5	
1<2	PCP	.1	.1	.1	.1	.1	.2	.0	.0	.0	.0	.7	
	NO PCP	.5	.2	.1	.3	1.0	.3	.1	.0	.0	.0	2.5	
	TOT %	.5	.3	.3	.4	1.1	.4	.1	.0	.0	.0	3.1	
2<5	PCP	.0	.1	.1	.3	.5	.1	.0	.0	.0	.0	1.0	
	NO PCP	.0	.0	.4	.1	.4	.2	.1	.0	.0	.0	1.2	
	TOT %	.0	.1	.4	.4	.9	.3	.1	.0	.0	.0	2.2	
5<10	PCP	.5	.9	1.1	1.3	1.5	.6	.2	.1	.0	.0	6.3	
	NO PCP	5.1	3.6	4.0	5.1	4.3	1.6	.4	1.1	.0	.5	25.8	
	TOT %	5.6	4.5	5.1	6.4	5.8	2.2	.6	1.3	.0	.5	32.0	
10+	PCP	.3	.3	.1	.3	1.1	.2	.0	*	.0	.0	2.3	
	NO PCP	8.9	9.8	8.8	9.9	11.1	4.3	1.4	2.8	.0	.7	37.6	
	TOT %	9.2	10.1	8.9	10.2	12.2	4.5	1.4	2.8	.0	.7	39.9	
TOT OBS													768
TOT PCT		15.3	15.7	15.1	18.5	20.5	7.4	2.2	4.1	.0	1.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	.3	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.2	.0	.1	.2	.0	.0	.0	.0	.0	1.2	
	22+	.0	.0	.1	.9	.2	.0	.0	.0	.0	.0	2.2	
	TOT %	.0	.5	.2	1.0	.4	.0	.0	.0	.0	.0	3.5	
1<2	0-3	.0	.0	.1	.1	.1	.0	.1	.0	.0	.0	.3	
	4-10	.1	.2	.0	.0	.1	.1	.0	.1	.0	.0	.5	
	11-21	.4	.1	.2	.2	.7	.2	.0	.0	.0	.0	1.7	
	22+	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.3	
	TOT %	.5	.2	.2	.3	1.0	.4	.1	.1	.0	.0	2.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.2	.1	.2	.2	.0	.0	.0	.0	.7	
	11-21	.0	.0	.2	.2	.2	.2	.0	.0	.0	.0	.8	
	22+	.0	.2	.1	.1	.8	.1	.0	.0	.0	.0	1.4	
	TOT %	.0	.4	.5	.5	1.0	.4	.1	.0	.0	.0	2.8	
5<10	0-3	.1	.3	.7	.5	.1	.2	.1	.2	.0	.5	2.6	
	4-10	2.3	2.4	1.6	1.3	1.6	.9	.5	.7	.0	.0	11.4	
	11-21	2.6	1.5	1.8	2.7	2.3	.7	.0	.2	.0	.0	11.9	
	22+	.3	.2	.4	1.4	1.6	.5	.0	.0	.0	.0	4.4	
	TOT %	5.4	4.4	4.6	5.9	5.4	2.3	.6	1.2	.0	.5	30.3	
10+	0-3	.3	.4	.7	.7	.4	.4	.2	.6	.0	.8	4.5	
	4-10	4.2	4.7	5.6	4.9	3.4	2.0	.9	1.8	.0	.0	27.5	
	11-21	4.3	4.8	2.1	3.7	5.7	2.4	.4	1.0	.0	.0	24.4	
	22+	.5	.6	.1	.8	2.6	.4	.0	*	.0	.0	5.1	
	TOT %	9.3	10.6	8.4	10.1	12.1	5.3	1.6	3.4	.0	.8	61.5	
TOT OBS													881
TOT PCT		15.2	16.2	14.2	17.8	19.9	8.3	2.4	4.6	.0	1.2	100.0	

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PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1876-1969

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL DBS
00003	.0	.0	.8	6.4	15.2	8.0	3.2	.0	.8	.0	34.4	65.6	125
06009	.0	.0	.0	7.1	10.7	7.1	3.6	.0	.0	1.8	30.4	69.6	112
12015	.0	.0	1.4	13.0	13.0	4.3	1.4	.0	.0	.0	33.3	66.7	69
18021	.0	.0	4.2	8.3	8.3	6.9	5.6	.0	.0	.0	33.3	66.7	72
TOT	0	0	5	31	46	26	13	0	1	2	124	254	378
PCT	.0	.0	1.3	8.2	12.2	6.9	3.4	.0	.3	.5	32.8	67.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00003	.4	1.3	2.5	3.0	25.3	67.5	237
06009	.4	2.7	4.2	3.1	32.6	57.1	261
12015	.7	2.7	.0	4.8	27.4	64.4	146
18021	.0	2.0	3.2	1.6	36.1	57.1	252
TOT	3	19	25	26	276	547	896
PCT	.3	2.1	2.8	2.9	30.8	61.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <30YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL DBS
00003	.0	.8	7.6	28.8	63.6	118
06009	.0	.0	9.7	24.3	66.0	103
12015	.0	3.2	15.9	20.6	63.5	63
18021	.0	4.8	14.5	24.2	61.3	62
TOT	0	6	38	87	221	346
PCT	.0	1.7	11.0	25.1	63.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
85/85	.0	.0	.0	.0	.4	.0	.2	.0	3	.6
80/84	.0	.0	.0	.6	.7	4.2	2.4	1.1	49	9.0
75/79	.0	.0	.2	1.5	8.3	14.8	17.2	7.9	270	49.8
70/74	.0	.0	.2	2.0	7.6	7.7	10.4	8.5	200	36.9
65/69	.0	.0	.2	.4	.4	.7	1.3	.7	20	3.7
TOTAL	0	0	3	24	94	149	173	99	542	100.0
PCT	.0	.0	.6	4.4	17.3	27.5	31.9	18.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.2	.0	.0	.0	.4	.0	.0
2.4	3.0	1.8	.8	.5	.2	.0	.5	.0	.0
10.4	10.0	6.7	6.8	8.5	2.7	.7	2.5	.0	1.5
4.2	3.0	5.4	7.1	11.2	3.6	1.2	1.3	.0	.0
.0	.0	.2	.1	1.7	.9	.6	.0	.0	.2
17.0	16.0	14.0	13.0	21.8	7.5	2.4	4.7	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL DBS
00003	89	83	81	76	70	66	66	75.8	316
06009	85	83	80	75	70	67	66	75.4	344
12015	80	79	78	73	70	66	65	73.7	180
18021	86	81	78	73	67	65	60	73.3	336
TOT	89	82	80	75	69	66	60	74.7	1176

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	6.3	20.0	30.6	34.4	8.8	76	160
06009	.0	4.7	19.3	29.8	29.2	17.0	78	171
12015	.0	3.3	17.4	18.5	32.6	28.3	81	92
18021	.0	4.5	12.0	24.1	32.3	27.1	81	133
TOT	0	27	97	149	178	105	79	556

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
11/13	.0	.0	.6	.0	.1	5	.0	.7
9/10	.0	.1	.0	.0	.0	1	.0	.1
7/8	.0	.0	.3	.3	.1	5	.0	.7
6	.0	.0	.3	.1	.0	3	.0	.4
5	.0	.0	.4	.7	.7	13	.0	1.9
4	.0	.0	.1	1.3	.7	15	.0	2.2
3	.0	.4	1.2	1.5	.9	26	.1	3.7
2	.1	.4	2.5	4.5	.7	57	.4	8.0
1	.0	.9	3.4	3.4	.1	57	.3	8.2
0	.0	1.5	5.5	6.3	.4	92	.4	13.2
-1	.1	1.8	6.1	3.4	.1	78	.1	11.5
-2	.1	3.0	9.1	3.4	.0	105	.4	15.2
-3	.0	3.3	4.6	1.6	.0	64	.3	9.2
-4	.3	2.4	6.4	.3	.0	63	.1	9.2
-5	.1	1.9	3.0	.1	.0	35	.1	5.1
-6	.1	1.6	1.5	.1	.0	23	.0	3.4
-7/-8	.6	1.8	.9	.1	.0	23	.0	3.4
-9/-10	.4	.1	.3	.0	.0	6	.0	.9
-11/-13	.0	.1	.0	.0	.0	1	.0	.1
TOTAL	14	131	311	184	32	672	17	653
PCT	2.1	19.5	46.3	27.4	4.8	100.0	2.5	97.3

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	NE						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	.0	.0	.0	.0	.0	.4	.1	.8	.0	.0	.0	.0	.9
1-2	.4	3.3	.3	.0	.0	.0	3.9	.0	4.5	1.9	.0	.0	.0	6.3
3-4	.0	2.0	3.4	.0	.0	.0	5.4	.0	2.1	3.6	.0	.0	.0	5.8
5-6	.0	.0	2.0	.0	.4	.0	2.3	.0	.4	2.0	.0	.0	.0	2.4
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	5.2	6.2	.3	.4	.0	12.8	.1	7.8	8.5	.7	.0	.0	17.1

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	1.3	.0	.0	.0	.0	1.6	.4	2.0	.5	.0	.0	.0	2.8
1-2	.4	5.5	.3	.0	.0	.0	6.1	.4	3.4	.5	.0	.0	.0	4.3
3-4	.0	2.7	3.5	.0	.0	.0	6.2	.0	1.3	3.6	.0	.0	.0	4.9
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.4	2.4	.4	.0	.0	3.2
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.1	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	9.5	4.2	.0	.0	.0	14.3	.7	7.1	7.5	.5	.4	.0	16.2

PERIOD: (OVER-ALL) 1963-1969

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.0	.3	.0	.0	.0	.3	.0	.4	.0	.0	.0	.0	.4	
1-2	.0	4.6	1.1	.0	.0	.0	5.7	.0	1.3	.4	.0	.0	.0	1.7	
3-4	.0	1.0	4.9	.4	.0	.0	6.3	.0	1.2	1.7	.0	.0	.0	2.9	
5-6	.0	.3	2.6	1.1	.0	.0	4.0	.0	.1	.6	.7	.0	.0	1.4	
7	.0	.4	1.7	2.1	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.7	.7	.0	1.5	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.4	.7	.0	1.0	.0	.0	.0	.4	.1	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.4	.4	.7	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	6.2	10.6	5.1	1.8	.4	24.1	.0	3.0	2.6	1.1	.1	.0	6.8	

HGT	H							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.7	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.7	.4	.0	.0	.0	1.1	.0	1.3	.5	.0	.0	.0	1.8		
3-4	.0	.3	.7	.0	.0	.0	1.0	.0	.6	1.1	.0	.0	.0	1.7		
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.8		
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	1.8	1.1	.0	.0	.0	2.9	.0	1.9	2.4	.1	.0	.0	4.4	98.5	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.3	5.1	.7	.0	.0	.0	9.2	
1-2	1.5	24.3	5.1	.0	.0	.0	30.9	
3-4	.0	11.0	22.4	.4	.0	.0	33.8	
5-6	.0	1.1	10.7	2.2	.4	.0	14.3	
7	.0	.4	3.3	2.2	.0	.0	5.9	
8-9	.0	.0	.0	1.5	.7	.0	2.2	
10-11	.0	.0	.0	1.1	.7	.0	1.8	
12	.0	.0	.4	.0	.0	.0	.4	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.4	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.7	.4	1.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.8	41.9	42.6	7.7	2.6	.4	100.0	272

PERIOD: (OVER-ALL) 1950-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	7.4	16.6	8.0	1.5	.0	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	121	4
6-7	.0	1.2	8.3	8.3	9.2	2.4	1.2	.9	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	109	6
8-9	.0	.0	1.5	2.4	5.0	3.0	1.5	.6	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	7
10-11	.0	.0	.3	.9	1.8	1.8	.6	.3	.9	.0	.6	.0	1.2	.0	.0	.0	.0	.0	.0	28	12
12-13	.0	.0	.0	.6	1.2	.3	.0	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	10	9
>13	.0	.0	.0	.0	.0	.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	9
INDET	1.2	.3	.3	2.1	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	4
TOTAL	6	30	91	75	64	27	17	11	8	2	3	0	4	0	0	0	0	0	0	338	6
PCT	1.8	8.9	26.9	22.2	18.9	8.0	5.0	3.3	2.4	.6	.9	.0	1.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1974-1972 (OVER-ALL) 1976-1972
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PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	RAIN	DRZL	FRZG	SNOW	OTHER	HAIL	PCPN AT	PCPN PAST	THDR	FOG	PCPN	PAST HR	HAZE	BLWG	SNOW	WEA
N	.4	1.7	.0	.0	.0	.0	2.1	.6	3.1	.0	.0	.0	3.7	.0	.0	90.5
NE	2.9	3.4	1.0	.0	.0	.0	7.3	1.2	4.4	1.8	.0	.0	3.4	.0	.0	86.8
E	2.9	3.7	.0	.0	.0	.0	10.8	.0	4.4	1.8	.0	.0	.9	.0	.0	82.1
SE	2.9	5.4	.7	.0	.0	.0	9.0	3.6	1.0	1.0	.0	.0	.7	.0	.0	85.4
S	1.8	5.4	1.0	.0	.0	.0	.0	2.1	3.6	1.6	.0	.0	1.1	.0	.0	83.4
SM	6.8	9.9	3.0	.0	.0	.0	19.8	1.5	2.3	6.2	.0	.0	1.9	.0	.0	72.3
M	6.2	.0	1.5	.0	.0	.0	7.7	4.6	1.5	6.2	.0	.0	9.2	.0	.0	75.3
NM	4.8	.0	.0	.0	.0	.0	4.8	.0	3.0	.0	.0	.0	4.8	.0	.0	87.5
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22.2	.0	.0	77.8
TOT PCT	2.9	4.6	.8	.0	.0	.0	8.3	1.7	2.6	.9	.0	.0	2.6	.0	.0	84.1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE	HAIR	PCPN AT	PCPN PAST	THDR	FOG	PCPN	PAST HR	HAZE	BLWG	SNOW	WEA
NO	1.3	4.5	1.3	1.8	6.9	.8	.0	.0	.0	.0	87.9
SIG	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	85.0
STG	.0	.0	.0	9.7	.0	.0	.0	.0	.0	.0	78.6
0600	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	87.9
0600	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85.0
1200	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	85.0
1800	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	87.9
TOT PCT	3.1	4.7	.9	.0	.0	.0	.0	.0	.0	.0	83.8

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	0-3	4-10	11-21	22-33	34-47	48+	TOTAL	PCT MEAN	DBS	FREQ	SPD
N	1.1	8.4	5.2	.4	.1	.0	15.3	10.2	15.3	10.2	14.0
NE	1.0	8.7	3.7	.0	.0	.0	13.7	9.2	13.7	9.2	8.8
E	1.1	8.1	4.7	.0	.0	.0	14.2	9.8	14.2	9.8	10.5
SE	1.0	8.0	4.4	.0	.0	.0	17.7	13.1	17.7	13.1	12.4
S	1.0	8.0	4.4	.0	.0	.0	18.3	15.4	18.3	15.4	15.2
SM	1.0	8.0	4.4	.0	.0	.0	16.3	10.2	16.3	10.2	16.2
M	1.0	8.0	4.4	.0	.0	.0	10.1	4.9	10.1	4.9	10.0
NM	1.0	8.0	4.4	.0	.0	.0	12.4	2.1	12.4	2.1	12.4
CALM	1.0	8.0	4.4	.0	.0	.0	10.0	.0	10.0	.0	10.0
TOT PCT	9.3	47.8	34.9	6.6	1.4	.1	134.0	11.2	134.0	11.2	100.0

TABLE 3A

WIND DIR	0-6	7-16	17-27	28-40	41+	TOTAL	PCT MEAN	DBS	FREQ	SPD	HOUR (GMT)
N	4.6	8.5	2.0	.1	.0	15.3	10.2	15.3	10.2	14.0	15.1
NE	5.1	7.1	2.1	.0	.0	14.7	9.2	14.7	9.2	12.6	12.6
E	4.9	7.1	2.1	.0	.0	14.7	9.2	14.7	9.2	12.6	12.6
SE	3.2	4.8	1.6	.0	.0	11.7	7.8	11.7	7.8	11.7	11.7
S	2.9	4.8	1.6	.0	.0	11.7	7.8	11.7	7.8	11.7	11.7
SM	2.0	4.0	1.1	.0	.0	7.7	4.9	7.7	4.9	7.7	7.7
M	2.3	4.0	1.1	.0	.0	7.7	4.9	7.7	4.9	7.7	7.7
NM	2.4	4.0	1.1	.0	.0	7.7	4.9	7.7	4.9	7.7	7.7
CALM	2.4	4.0	1.1	.0	.0	7.7	4.9	7.7	4.9	7.7	7.7
TOT PCT	29.6	48.1	19.3	2.8	.1	134.0	11.2	134.0	11.2	100.0	100.0

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1876-1972

MARCH

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.4	1.7	.0	.0	.0	.0	.0	2.1	.6	3.1	.0	.0	3.7	.0	90.5
NE	2.9	3.4	1.0	.0	.0	.0	.0	7.3	1.2	1.2	.0	.0	3.4	.0	86.8
E	3.7	7.1	.0	.0	.0	.0	.0	10.8	.0	4.4	1.8	.0	.9	.0	82.1
SE	2.9	5.4	.7	.0	.0	.0	.0	9.0	3.6	1.0	.3	.0	.7	.0	85.4
S	1.8	5.4	1.0	.0	.0	.0	.0	8.2	2.1	3.6	1.6	.0	1.1	.0	83.4
SW	6.8	9.9	3.0	.0	.0	.0	.0	19.8	1.5	2.3	.0	.0	1.9	.0	75.3
W	6.2	.0	1.5	.0	.0	.0	.0	7.7	4.6	1.5	6.2	.0	9.2	.0	72.3
NW	4.8	.0	.0	.0	.0	.0	.0	4.8	.0	3.0	.0	.0	4.8	.0	87.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	22.2	.0	77.8
TOT PCT	2.9	4.6	.8	.0	.0	.0	.0	8.3	1.7	2.6	.9	.0	2.6	.0	84.1
TOT OBS:	782														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	1.3	2.7	.4	.0	.0	.0	.0	4.5	1.3	.4	.9	.0	4.9	.0	87.9
06009	3.5	5.7	.4	.0	.0	.0	.0	9.7	1.8	1.8	.0	.0	1.8	.0	85.0
12015	3.8	6.9	.8	.0	.0	.0	.0	11.5	2.3	6.9	.8	.0	.0	.0	78.6
18021	3.9	4.4	1.7	.0	.0	.0	.0	10.0	1.7	2.6	2.2	.0	2.2	.0	81.7
TOT PCT	3.1	4.7	.9	.0	.0	.0	.0	8.6	1.7	2.5	1.0	.0	2.5	.0	83.8
TOT OBS:	810														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.1	8.4	5.2	.4	.1	.0		15.3	10.2		16.9	15.0	12.6	15.7	13.9	20.7	16.1	14.0
NE	1.0	8.7	3.7	.3	.0	.0		13.7	9.2		3.2	11.0	18.1	18.0	18.9	15.5	16.0	8.8
E	1.1	8.1	4.7	.2	.0	.0		14.2	9.8		7.7	12.6	16.7	21.0	11.8	22.8	11.4	10.5
SE	1.0	6.8	8.0	1.6	.4	.0		17.7	13.1		18.3	15.4	23.3	19.3	24.0	11.2	13.6	15.2
S	.7	6.0	8.2	2.9	.6	.1		18.4	15.0		18.5	26.3	21.2	18.0	20.9	12.5	14.2	12.4
SW	.5	3.8	3.5	1.0	.3	.0		9.0	13.1		16.3	10.2	3.0	4.0	5.1	5.2	10.8	16.2
W	.6	2.7	.7	.1	.0	.0		4.1	7.7		5.6	2.5	1.1	1.0	2.4	4.3	7.3	8.8
NW	.8	3.3	1.1	.0	.0	.0		5.2	7.8		10.1	4.9	.7	2.3	.3	4.3	8.1	10.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0		3.2	2.1	1.2	.7	2.7	3.4	2.4	4.3
TOT DBS	124	640	468	88	19	1	1340		11.2		124	236	246	150	74	116	206	188
TOT PCT	9.3	47.8	34.9	6.6	1.4	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	4.6	8.5	2.0	.1	.0		15.3	10.2	15.7	13.8	18.0	15.1	
NE	5.1	7.1	1.4	.0	.0		13.7	9.2	8.3	18.1	16.8	12.6	
E	4.9	7.1	2.1	.1	.0		14.2	9.8	10.9	18.3	18.6	11.0	
SE	3.2	9.1	4.8	.6	.0		17.7	13.1	16.4	23.0	16.2	14.3	
S	2.9	7.9	6.2	1.3	.1		18.4	15.0	23.6	20.0	15.8	13.3	
SW	2.0	4.0	2.3	.6	.0		9.0	13.1	12.3	3.4	5.1	13.4	
W	2.3	1.7	.1	.1	.0		4.1	7.7	3.6	1.1	3.6	8.0	
NW	2.4	2.5	.4	.0	.0		5.2	7.8	6.7	1.3	2.8	9.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.4						2.4	.0	2.5	1.0	3.2	3.3	
TOT DBS	397	644	259	38	2	1340		11.2	360	396	190	394	
TOT PCT	29.6	48.1	19.3	2.8	.1		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1914-1972
(OVER-ALL) 1876-1972

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.5	8.1	45.3	34.7	6.4	2.8	.3	11.4	100.0	360
06009	1.0	5.1	45.7	39.6	7.1	1.5	.0	11.9	100.0	396
12015	3.2	5.3	47.9	33.7	9.5	.5	.0	11.4	100.0	190
18021	3.3	8.4	52.0	31.0	4.8	.5	.0	10.1	100.0	394
TOT	32	92	640	468	88	19	1	11.2		1340
PCT	2.4	6.9	47.8	34.9	6.6	1.4	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	8.2	2.7	3.7	.8		2.7
NE	6.1	2.0	3.9	.9		3.3
E	2.6	1.7	2.9	1.1		4.2
SE	3.8	5.0	10.4	3.7		5.1
S	4.4	4.6	6.8	3.9		4.8
SW	4.7	2.1	2.0	.7		3.1
W	2.2	.2	.6	.7		3.2
NW	3.5	.7	.6	.3		2.3
VAR	.0	.0	.0	.0		.0
CALM	1.4	.0	.6	.3		3.2
TOT OBS	131	88	112	44	355	3.9
TOT PCT	36.7	19.2	31.5	12.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	1.0	.5	.0	.0	.3	.2	13.5	
NE	.0	.0	.3	1.7	.6	.1	.0	.0	.0	.0	10.3	
E	.0	.0	.2	1.1	1.3	.0	.0	.0	.0	.0	5.7	
SE	.0	.0	.1	2.3	4.9	3.2	.6	.0	.0	.0	12.0	
S	.0	.0	.0	1.6	4.4	1.5	.5	.3	.3	.0	11.3	
SW	.0	.0	.0	.4	.3	.7	.4	.0	.0	.0	7.8	
W	.0	.0	.0	.2	.2	.3	.0	.0	.0	.0	3.0	
NW	.0	.0	.0	.0	.1	.3	.0	.0	.0	.0	4.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.3	.3	.0	.0	.0	.3	1.4	
TOT OBS	0	0	2	26	46	24	5	1	2	2	247	355
TOT PCT	.0	.0	.6	7.3	13.0	6.8	1.4	.3	.6	.6	69.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >90YD	= OR >0
= OR >4500	.8	1.1	1.1	1.1	1.1	1.1	1.1	1.1
= OR >4000	.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >3500	1.6	2.7	2.7	2.7	2.7	2.7	2.7	2.7
= OR >3000	7.7	9.6	9.6	9.6	9.6	9.6	9.6	9.6
= OR >2000	18.1	22.3	22.3	22.5	22.5	22.5	22.5	22.5
= OR >1000	23.4	28.8	29.4	29.7	29.7	29.7	29.7	29.7
= OR >600	23.6	29.4	29.9	30.2	30.2	30.2	30.2	30.2
= OR >300	23.6	29.4	29.9	30.2	30.2	30.2	30.2	30.2
= OR >150	23.6	29.4	29.9	30.2	30.2	30.2	30.2	30.2
= OR >0	23.6	29.4	29.9	30.2	30.2	30.2	30.2	30.2
TOTAL	86	107	109	110	110	110	110	110

TOTAL NUMBER OF OBS: 364

PCT FREQ NH <5/8: 69.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	14.3	16.3	18.5	10.0	9.0	5.3	8.5	9.0	9.3	.0	400

PERIOD: (PRIMARY) 1914-1972
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.3	.0	.1	.0	.0	.0	.0	.0	.4	
	NO PCP	.0	.0	.3	.1	.1	.0	.0	.0	.0	.0	.4	
	TOT %	.0	.0	.5	.1	.2	.0	.0	.0	.0	.0	.8	
1<2	PCP	.1	.0	.0	.3	.0	.0	.0	.1	.0	.0	.4	
	NO PCP	.4	.2	.1	.0	.3	.0	.1	.0	.0	.0	1.2	
	TOT %	.5	.2	.1	.3	.3	.0	.1	.1	.0	.0	1.5	
2<5	PCP	.0	.3	.1	.3	.1	.1	.0	.0	.0	.0	.8	
	NO PCP	.1	.0	.0	.3	.3	.4	.0	.0	.0	.0	1.0	
	TOT %	.1	.3	.1	.5	.3	.4	.0	.0	.0	.0	1.8	
5<10	PCP	.3	.6	.8	.5	.8	1.2	.2	.2	.0	.0	4.6	
	NO PCP	4.9	3.3	5.8	4.6	5.9	1.3	1.2	1.7	.0	.3	28.9	
	TOT %	5.1	3.9	6.6	5.1	6.7	2.5	1.4	1.9	.0	.3	33.5	
10+	PCP	.0	.1	.3	.7	.6	.4	.1	.0	.0	.0	2.2	
	NO PCP	9.7	8.7	6.3	12.2	11.6	5.1	2.5	3.5	.0	.9	60.2	
	TOT %	9.7	8.8	6.6	12.9	12.1	5.5	2.6	3.5	.0	.9	62.4	
TOT OBS													782
TOT PCT		15.4	13.1	13.9	18.8	19.6	8.4	4.2	5.4	.0	1.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.1	
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.2	.1	.1	.0	.0	.0	.0	.0	.3	
	11-21	.0	.0	.3	.1	.0	.0	.0	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.5	.1	.2	.0	.0	.0	.0	.0	.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.1	.1	.0	.1	.0	.1	.1	.0	.0	.7	
	11-21	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.3	
	TOT %	.4	.2	.1	.2	.2	.0	.1	.1	.0	.0	1.3	
2<5	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	.1	.2	.0	.1	.1	.4	.1	.0	.0	.0	.9	
	11-21	.0	.0	.2	.3	.1	.2	.0	.0	.0	.0	.7	
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.1	.2	.2	.5	.4	.6	.1	.0	.0	.0	2.0	
5<10	0-3	.5	.3	.2	.5	.2	.1	.2	.2	.0	.3	2.4	
	4-10	2.6	2.4	3.7	2.1	1.5	.5	.7	.9	.0	.0	14.4	
	11-21	.9	1.1	1.9	1.6	3.3	.8	.2	.4	.0	.0	10.2	
	22+	.3	.0	.2	.6	1.3	.9	.1	.0	.0	.0	3.4	
	TOT %	4.3	3.7	5.9	4.8	6.3	2.3	1.2	1.5	.0	.3	30.5	
10+	0-3	.4	.6	.9	.6	.2	.2	.6	.9	.0	.9	5.4	
	4-10	4.7	5.0	4.6	5.3	4.1	2.5	1.8	2.5	.0	.0	30.5	
	11-21	3.8	3.2	2.2	6.5	5.7	2.3	.3	.7	.0	.0	24.9	
	22+	.4	.4	.2	1.3	1.8	.4	.1	.0	.0	.0	4.6	
	TOT %	9.4	9.1	7.9	13.7	11.9	5.6	2.8	4.1	.0	.9	65.3	
TOT OBS													949
TOT PCT		14.4	13.2	14.6	19.4	18.9	8.5	4.1	5.6	.0	1.3	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	400 999	500 1999	600 3499	700 4999	800 6499	900 7999	1000+ 8000+	TOTAL DBS	NH < 5/8 ANY HGT	TOTAL DBS
00003	.0	.0	.0	3.2	12.9	8.1	1.6	.0	.8	.8	27.4	72.6	124
06009	.0	.0	2.0	9.1	16.2	7.1	1.0	.0	.0	1.0	36.4	63.6	99
12015	.0	.0	.0	10.7	9.3	4.0	.0	.0	.0	.0	24.0	76.0	75
18021	.0	.0	.0	6.0	9.5	6.0	2.4	1.2	1.2	.0	26.2	73.8	84
TOT	0	0	2	26	47	25	5	1	2	2	110	272	382
PCT	.0	.0	.5	6.8	12.3	6.5	1.3	.3	.5	.5	28.8	71.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+ TOTAL DBS
00003	.0	.8	2.3	1.9	23.8	71.2
06009	.0	.4	.4	1.4	36.7	61.2
12015	.7	1.4	1.4	3.4	25.0	68.2
18021	.3	1.0	1.0	2.1	33.2	62.3
TOT	2	8	12	20	298	638
PCT	.2	.8	1.2	2.0	30.5	65.2

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL DBS
00003	.0	.0	5.0	24.2	70.8	120
06009	.0	2.1	11.5	26.0	62.5	96
12015	.0	.0	14.1	14.1	71.8	71
18021	.0	.0	7.8	22.1	70.1	77
TOT	0	2	33	81	250	364
PCT	.0	.5	9.1	22.3	68.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
80/86	.0	.0	.0	.4	1.9	1.2	.2	.0	18	3.7
75/79	.0	.0	.2	2.1	6.4	17.7	10.3	2.3	189	38.9
70/74	.0	.0	.2	3.5	12.8	16.7	14.2	5.1	235	52.5
65/69	.0	.0	.0	.0	.4	1.0	2.7	.8	24	4.9
TOTAL	0	0	2	29	104	178	133	40	486	100.0
PCT	.0	.0	.4	6.0	21.4	36.6	27.4	8.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.2	.7	.4	.1	.5	.5	.0	.0	.0	.4
8.7	6.2	4.7	6.8	6.2	1.9	1.1	2.7	.0	.6
4.8	5.7	4.4	13.2	12.6	5.6	2.5	2.8	.0	.8
.1	.1	.1	.2	1.9	1.6	.6	.4	.0	.0
14.9	12.7	9.6	20.3	21.1	9.6	4.2	5.9	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	87	81	80	75	70	65	63	74.8	350
06009	85	83	80	75	68	64	61	74.5	387
12015	79	78	76	73	69	64	59	73.2	190
18021	80	79	77	73	67	65	64	72.4	401
TOT	85	81	79	74	68	64	59	73.8	1328

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	6.8	23.0	38.5	23.6	8.1	75	148		
06009	.0	9.2	24.8	42.6	19.9	3.5	73	141		
12015	.0	4.9	24.4	37.8	28.0	4.9	75	82		
18021	.0	2.9	11.8	27.2	39.0	19.1	80	136		
TOT	0	31	105	185	139	67	76	507		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	65 68	69 72	73 76	77 80	81 84	TOT	H FOG	NO FOG
11/13	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.1	.0	1	.0	.1
7/8	.0	.0	.0	.3	.0	2	.0	.3
6	.0	.0	.0	.0	.3	2	.0	.3
5	.0	.1	.3	.6	.6	11	.0	1.5
4	.0	.3	.7	1.7	.3	21	.0	2.9
3	.0	.0	.4	1.3	.1	13	.0	1.8
2	.0	.8	1.8	3.1	.4	44	.4	5.7
1	.0	.8	2.4	2.9	.0	44	.1	6.0
0	.3	1.3	8.2	2.9	.0	91	.1	12.5
-1	.1	1.5	6.0	2.9	.1	77	.4	10.3
-2	.6	4.2	10.3	1.3	.0	117	.0	16.3
-3	.1	4.0	7.2	.0	.0	82	.0	11.4
-4	.6	5.0	5.6	.3	.0	82	.0	11.4
-5	.8	3.2	3.1	.0	.3	53	.0	7.4
-6	.7	2.5	1.7	.1	.0	36	.0	5.0
-7/-8	.6	2.9	1.0	.0	.0	32	.0	4.5
-9/-10	.4	.7	.1	.0	.0	9	.0	1.3
-11/-13	.1	.0	.0	.0	.0	1	.0	.1
TOTAL	31	197	350	125	16	719	8	711
PCT	4.3	27.4	48.7	17.4	2.2	100.0	1.1	98.9

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TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.9	.0	.0	.0	.0	.9	.0	1.0	.0	.0	.0	.0	1.0
1-2	.3	1.6	1.9	.0	.0	.0	3.8	.0	2.0	.9	.0	.0	.0	2.9
3-4	.0	1.9	3.2	.7	.0	.0	5.9	.0	.8	2.4	.0	.0	.0	3.2
5-6	.0	.0	1.3	.0	.0	.0	1.3	.0	.4	2.0	.4	.0	.0	2.7
7	.0	.4	.4	.0	.0	.0	.7	.0	.0	1.1	.4	.0	.0	1.4
8-9	.0	.4	.6	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.1	7.4	.7	.4	.0	13.9	.0	4.2	6.4	.7	.0	.0	11.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	.0	.5	.1	.0	.0	.0	.5
1-2	.0	1.7	.0	.0	.0	.0	1.7	.4	2.4	1.0	.0	.0	.0	3.8
3-4	.0	.9	.7	.0	.0	.0	1.6	.0	2.4	4.9	.7	.0	.0	8.0
5-6	.0	.0	2.1	.0	.0	.0	2.1	.0	.5	3.3	1.2	.0	.0	5.0
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	1.8	1.5	.0	.0	3.3
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.7	.1	.0	.0	.8
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.4	5.8	11.8	3.5	.4	.0	21.8
TOT PCT	.0	3.9	3.9	.0	.0	.0	7.8	.0	5.8	11.8	3.5	.4	.0	21.8

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.4	.3	.0	.0	.0	2.0	.1	1.3	.0	.0	.0	.0	1.4
1-2	.0	1.1	1.2	.0	.0	.0	2.3	.0	.9	1.8	.0	.0	.0	2.7
3-4	.0	1.3	3.8	.4	.0	.0	5.4	.0	.5	2.2	.0	.0	.0	2.6
5-6	.0	1.6	4.2	1.0	.4	.0	7.2	.0	.5	2.0	.1	.0	.0	2.5
7	.0	.0	1.7	1.6	.0	.0	3.3	.0	.0	.5	.8	.4	.0	1.6
8-9	.0	.0	.6	.5	.0	.0	1.2	.0	.0	.1	.1	.0	.0	.2
10-11	.0	.0	.4	.4	.0	.0	.7	.0	.0	.0	.4	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.3	12.2	4.2	.4	.0	22.5	.1	3.1	6.5	1.7	.4	.0	11.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.6	.6	.0	.0	.0	.0	1.3	.0	.7	.0	.0	.0	.0	.7	
1-2	.4	.9	.6	.0	.0	.0	1.9	.1	1.6	.5	.0	.0	.0	2.3	
3-4	.0	.3	.0	.0	.0	.0	.3	.0	.3	.5	.0	.0	.0	.7	
5-6	.0	.4	.3	.3	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	2.2	.9	.3	.0	.0	4.3	.1	2.6	1.4	.0	.0	.0	4.2	97.5

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.3	7.5	.4	.0	.0	.0	12.1	
1-2	1.4	12.1	7.9	.0	.0	.0	21.4	
3-4	.0	8.2	17.5	1.8	.0	.0	27.5	
5-6	.0	3.2	15.0	2.9	.4	.0	21.4	
7	.0	.4	6.1	4.3	.4	.0	11.1	
8-9	.0	.4	2.9	.7	.0	.0	3.9	
10-11	.0	.0	.4	.7	.7	.0	1.8	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.4	.0	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.7	31.8	50.0	11.1	1.4	.0	100.0	280

PERIOD: (OVER-ALL) 1950-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.1	4.9	10.6	4.0	3.1	.9	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	4
6-7	.0	1.1	8.0	14.6	5.4	2.0	2.3	1.1	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	124	6
8-9	.0	.0	1.7	2.6	5.7	5.7	2.6	1.4	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	72	8
10-11	.0	.0	.6	1.7	.9	1.1	1.7	1.1	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	8
12-13	.0	.0	.0	.3	.3	.0	.3	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	10
>13	.0	.0	.0	.9	.6	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	7
INDET	.6	.6	1.7	1.4	.6	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	4
TOTAL	13	23	79	89	58	35	26	14	12	1	0	0	0	0	0	0	0	0	0	350	6
PCT	3.7	6.6	22.6	25.4	16.6	10.0	7.4	4.0	3.4	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1914-1970
(OVER-ALL) 1858-1970

APRIL

AREA 0006 COFFS HARBOUR
30.35 153.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	.5	1.0	.0	.0	.0	.0	.0	1.5	1.0	4.1	.0	.0	1.0	.0	92.4
NE	13.7	1.4	.7	.0	.0	.0	.0	12.8	1.4	2.8	.0	.0	.0	.0	82.9
E	6.5	9.4	2.7	.0	.0	.0	.0	18.6	.9	.0	.0	.0	.0	.0	80.5
SE	5.6	12.2	.2	.0	.0	.0	.0	18.0	1.7	.4	.0	.0	.0	.0	80.2
S	7.2	11.1	.0	.0	.0	.0	.0	18.2	2.5	1.4	.5	.0	2.1	.0	75.6
SW	4.7	1.4	.4	.0	.0	.0	.0	6.5	2.4	2.0	.0	.0	.0	.0	89.1
W	2.0	3.3	2.0	.0	.0	.0	.0	7.3	1.3	5.0	.0	.0	.0	.0	86.3
NW	.8	2.4	.0	.0	.0	.0	.0	3.3	.0	3.7	.0	.0	.0	.0	93.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	5.0	6.2	.6	.0	.0	.0	.0	11.7	1.6	2.1	.1	.0	.6	.0	84.0
TOT OBS:	861														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.4	6.7	.0	.0	.0	.0	.0	10.1	1.7	.0	.0	.0	.8	.0	87.4
06009	4.0	5.8	.4	.0	.0	.0	.0	10.2	2.2	.7	.4	.0	.7	.0	85.8
12015	9.6	7.5	.7	.0	.0	.0	.0	17.8	1.4	4.8	.0	.0	.0	.0	76.0
18021	5.6	6.5	1.3	.0	.0	.0	.0	13.4	.9	4.3	.0	.0	.4	.0	81.5
TOT PCT	5.2	6.5	.6	.0	.0	.0	.0	12.2	1.6	2.1	.1	.0	.6	.0	83.5
TOT OBS:	891														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21
N	1.0	6.5	3.4	.3	.1	*		11.5	9.7	7.4	11.7	12.0	15.2	16.3	16.1	10.9	6.3
NE	.8	5.5	2.4	.6	.5	*		9.9	11.5	4.8	8.7	17.2	10.0	11.1	10.5	6.9	7.1
E	.7	5.0	2.6	.8	*	.0		9.1	11.0	2.1	8.4	12.7	13.0	10.8	7.7	6.4	9.5
SE	.8	6.0	6.6	1.6	.1	.0		15.2	12.8	12.4	13.6	17.5	23.4	20.5	19.0	10.6	9.7
S	.4	5.8	10.2	3.7	.7	*		20.8	15.5	25.2	24.5	27.2	21.3	17.0	15.7	16.5	13.8
SW	.6	5.2	7.4	2.3	.2	*		15.8	13.8	27.9	13.1	6.3	7.3	14.9	12.5	23.3	25.6
W	1.4	4.6	2.3	.3	.0	.0		8.6	8.8	7.9	8.5	2.1	5.7	3.1	9.3	13.4	15.6
NW	.6	5.2	1.7	*	.0	.0		7.6	8.2	10.7	10.3	3.3	2.7	2.1	7.7	9.9	11.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	1.7	1.3	.8	1.4	4.2	1.6	2.1	1.0
TOT OBS	105	587	489	130	23	2	1336		12.0	121	233	260	140	72	124	191	195
TOT PCT	7.9	43.9	36.6	9.7	1.7	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	06	12	18	21
N	4.4	5.9	1.0	.1	.1			11.5	9.7	10.2	13.1	16.2	8.5		
NE	3.5	4.7	.9	.7	.1			9.9	11.5	7.3	14.7	10.7	7.0		
E	2.4	5.0	1.4	.3	.0			9.1	11.0	6.2	12.6	8.8	8.0		
SE	3.0	7.7	3.7	.8	.0			15.2	12.8	13.2	19.6	19.5	10.2		
S	2.0	10.4	6.8	1.6	.1			20.8	15.5	24.7	25.1	16.2	15.2		
SW	3.3	7.2	4.5	.7	.1			19.8	13.8	18.1	6.6	13.4	24.5		
W	3.7	3.8	1.0	.1	.0			8.6	8.8	8.3	4.0	7.0	14.5		
NW	3.3	3.8	.4	.0	.0			7.6	8.2	10.5	3.1	5.6	10.6		
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0		
CALM	1.5							1.5	.0	1.4	1.0	2.6	1.6		
TOT OBS	361	648	264	57	6	1336			12.0	354	400	196	386		
TOT PCT	27.0	48.5	19.8	4.3	.4			100.0		100.0	100.0	100.0	100.0		

PERIOD: (PRIMARY) 1914-1970
(OVER-ALL) 1858-1970

APRIL

AREA 0006 COFFS HARBOUR
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.4	7.1	41.5	38.4	8.5	2.5	.6	12.3	100.0	354
06009	1.0	5.0	44.8	36.0	11.5	1.8	.0	12.4	100.0	400
12015	2.6	4.6	44.9	35.7	10.7	1.5	.0	12.0	100.0	196
18021	1.6	8.0	44.8	36.0	8.5	1.0	.0	11.2	100.0	388
TOT	20	85	587	489	130	23	2	12.0		1336
PCT	1.5	6.4	43.9	36.6	9.7	1.7	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.6	1.3	4.0	.7		2.8
NE	5.3	1.0	2.3	1.0		3.2
E	3.0	.8	3.6	1.0		4.4
SE	3.4	2.5	7.1	2.2		4.6
S	5.1	5.7	5.9	6.6		4.9
SW	8.1	3.5	4.2	1.8		3.4
W	2.5	.8	.0	1.0		2.9
NW	3.8	.7	.7	.4		2.5
VAR	.0	.0	.0	.0		.0
CALM	1.2	.6	.3	.0		1.8
TOT OBS	134	57	94	50	335	3.8
TOT PCT	40.0	17.0	28.1	14.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3999	4999	6499	7999			
.0	.0	.0	.5	.5	.4	.0	.0	.3	.3	11.6	
.0	.0	.0	.8	1.3	.3	.0	.0	.0	.0	6.9	
.0	.0	.0	.9	.6	1.2	.3	.0	.0	.0	9.4	
.0	.0	.0	1.4	3.7	1.3	.7	.0	.0	.0	8.2	
.0	.0	.0	2.8	4.0	1.9	.5	.2	.0	.0	13.9	
.0	.0	.0	1.3	2.1	1.0	.0	.1	.0	.0	13.2	
.0	.0	.0	.0	.4	.3	.0	.0	.0	.0	3.6	
.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	5.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	
.0	.0	.0	.26	.42	.22	.5	.1	.1	.2	236	335
.0	.0	.0	7.8	12.5	6.6	1.5	.3	.3	.6	70.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.9	.9	.9	.9	.9	.9	.9	.9
>5000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>3500	2.1	2.4	2.4	2.4	2.4	2.4	2.4	2.4
>2000	7.1	8.8	9.1	9.1	9.1	9.1	9.1	9.1
>1000	15.9	20.9	21.8	21.8	21.8	21.8	21.8	21.8
>600	20.3	27.9	29.4	29.4	29.7	29.7	29.7	29.7
>300	20.3	27.9	29.4	29.4	29.7	29.7	29.7	29.7
>150	20.3	27.9	29.4	29.4	29.7	29.7	29.7	29.7
>0	20.3	27.9	29.4	29.4	29.7	29.7	29.7	29.7
TOTAL	69	95	100	100	101	101	101	101

TOTAL NUMBER OF OBS: 340

PCT FREQ NH <5/8: 70.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
14.9	23.1	12.7	11.2	8.4	6.5	5.7	8.4	9.2	.0	403

PERIOD: (PRIMARY) 1914-1970
(OVER-ALL) 1858-1970

APRIL

AREA 0006 COFFS HARBOUR
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2
1<2	PCP	.0	.0	.0	.2	.1	.1	.1	.0	.0	.0	.0	.5
	NO PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.2	.2	.1	.1	.0	.0	.0	.0	.6
2<5	PCP	.0	.2	.1	.0	.5	.2	.0	.0	.0	.0	.0	.9
	NO PCP	.0	.0	.0	.0	.3	.3	.0	.0	.0	.0	.0	.6
	TOT %	.0	.2	.1	.0	.8	.4	.0	.0	.0	.0	.0	1.5
5<10	PCP	.2	.4	1.6	2.1	2.8	.5	.5	.1	.0	.0	.0	8.2
	NO PCP	3.0	2.4	2.8	4.4	6.4	3.2	3.7	2.8	.0	.3	.3	29.2
	TOT %	3.1	2.8	4.4	6.6	9.2	3.7	4.2	3.0	.0	.3	.3	37.4
10+	PCP	.0	.3	.2	.3	.6	.2	.0	.1	.0	.0	.0	1.9
	NO PCP	8.3	4.7	5.2	7.9	11.4	11.5	4.4	4.0	.0	1.0	1.0	58.4
	TOT %	8.3	5.0	5.4	8.2	12.0	11.7	4.4	4.2	.0	1.0	1.0	60.3
TOT OBS													841
TOT PCT													100.0
		11.4	8.2	9.8	15.0	22.3	16.0	8.7	7.1	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2
1<2	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
	4-10	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.2
	11-21	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.2
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.2	.2	.1	.1	.0	.0	.0	.0	.5
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.0	.1	.3	.1	.0	.0	.0	.0	.0	.6
	11-21	.1	.3	.1	.1	.6	.4	.0	.0	.0	.0	.0	1.4
	22+	.0	.1	.1	.0	.2	.1	.0	.0	.0	.0	.0	.3
	TOT %	.1	.4	.2	.2	1.0	.5	.0	.0	.0	.0	.0	2.3
5<10	0-3	.2	.3	.2	.3	.2	.3	1.0	.3	.0	.3	.3	3.0
	4-10	1.8	1.7	1.9	2.1	2.6	1.0	2.6	1.8	.0	.0	.0	15.5
	11-21	.5	.6	1.2	3.4	3.8	1.9	.5	.6	.0	.0	.0	12.4
	22+	.3	.1	.6	.6	1.7	.2	.0	.0	.0	.0	.0	3.5
	TOT %	2.8	2.8	3.9	6.4	8.2	3.3	4.1	2.7	.0	.3	.3	34.4
10+	0-3	.7	.5	.5	.5	.2	.3	.7	.4	.0	1.1	.4	4.9
	4-10	3.9	3.3	3.6	4.2	2.7	4.5	2.3	3.4	.0	.0	.0	27.9
	11-21	3.4	1.2	1.7	3.8	6.4	4.7	1.7	1.1	.0	.0	.0	24.1
	22+	.2	.1	.0	.3	2.8	2.2	.2	.1	.0	.0	.0	5.7
	TOT %	8.2	5.1	5.9	8.8	12.0	11.8	4.8	5.0	.0	1.1	1.1	62.6
TOT OBS													981
TOT PCT													100.0
		11.0	8.4	9.9	15.5	21.5	15.7	9.0	7.6	.0	1.4	100.0	

APRIL

PERIOD: (PRIMARY) 1914-1970
(OVER-ALL) 1858-1970AREA 0006 COFFS HARBOUR
30.35 153.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	6.3	9.4	7.1	1.6	.8	.0	.8	26.0	74.0	127
06009	.0	.0	.0	5.6	10.3	3.2	.8	.0	.8	.8	21.4	78.6	126
12015	.0	.0	.0	6.0	13.4	7.5	3.0	.0	.0	.0	29.9	70.1	67
18021	.0	.0	.0	12.3	13.8	7.7	.0	.0	.0	.0	33.8	66.2	65
TOT	0	0	0	27	43	23	5	1	1	2	102	283	385
PCT	.0	.0	.0	7.0	11.2	6.0	1.3	.3	.3	.5	26.5	73.5	100.0

TABLE 11

PERCENT FREQUENCY VSRY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.4	.8	2.7	25.3	70.9	261
06009	.0	.3	.0	3.0	35.1	61.6	305
12015	.6	.0	.6	1.8	39.0	57.9	164
18021	.0	.0	.7	2.1	42.7	54.4	281
TOT	1	2	5	25	357	621	1011
PCT	.1	.2	.5	2.5	35.3	61.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSRY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.9	9.7	20.4	69.9	113
06009	.0	.0	7.3	18.2	74.5	110
12015	.0	.0	8.5	23.7	67.8	59
18021	.0	.0	13.8	24.1	62.1	58
TOT	0	1	32	71	237	340
PCT	.0	.3	9.4	20.9	69.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.2	.0	.0	.0	.0	.0	1	.2
80/84	.0	.0	.0	.5	.5	.2	.3	.0	9	1.5
75/79	.0	.0	.2	2.2	5.2	5.7	1.9	.5	93	15.7
70/74	.0	.0	1.0	5.6	13.3	16.8	10.6	3.9	304	51.2
65/69	.0	.8	.5	1.3	3.7	5.9	9.4	5.2	160	26.9
60/64	.0	.3	.3	.2	.5	.5	1.5	.8	25	4.2
55/59	.0	.0	.2	.0	.0	.0	.2	.0	2	.3
TOTAL	0	7	14	58	138	173	142	62	594	100.0
PCT	.0	1.2	2.4	9.8	23.2	29.1	23.9	10.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0
80/84	.8	.4	.0	.0	.2	.0	.0	.2	.0	.0
75/79	3.4	2.7	1.6	2.4	2.7	1.2	.7	.9	.0	.2
70/74	5.0	5.3	7.0	9.5	11.3	5.9	2.4	3.7	.0	1.0
65/69	1.8	.7	1.7	2.9	7.0	6.5	4.3	1.6	.0	.3
60/64	.0	.0	.0	.2	.4	2.6	.9	.2	.0	.0
55/59	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0
TOTAL	11.1	9.1	10.3	15.0	21.7	16.4	8.3	6.6	.0	1.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	80	78	72	66	62	58	71.9	348
06009	86	82	79	72	65	63	57	71.9	396
12015	79	78	75	71	64	62	59	70.1	201
18021	87	76	75	69	63	59	57	69.1	388
TOT	87	80	77	71	64	60	57	70.8	1333

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	17.6	24.2	26.9	21.4	9.9	72	182
06009	.0	17.2	28.0	28.0	20.4	6.5	71	186
12015	.0	9.8	25.0	33.7	17.4	14.1	74	92
18021	.0	4.5	14.2	31.0	34.8	15.5	78	155
TOT	0	80	141	180	147	67	74	615

APRIL

PERIOD: (PRIMARY) 1914-1970
(OVER-ALL) 1858-1970

TABLE 17

AREA 0006 COFFS HARBOUR
30.35 153.3EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	83 88	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
7/8	.0	.0	.0	.0	.1	.5	.0	.0	5	.0	.6
6	.0	.0	.0	.0	.1	.1	.1	.1	4	.0	.5
5	.0	.0	.0	.1	.1	.3	.3	.0	6	.0	.8
4	.0	.0	.0	.0	.3	.4	.1	.0	9	.0	1.2
3	.0	.0	.4	.3	1.8	.6	.3	.0	26	.0	3.3
2	.0	.0	.1	.5	2.8	1.0	.1	.0	36	.0	4.6
1	.0	.0	.4	.6	2.6	1.2	.0	.0	37	.0	4.8
0	.0	.0	.8	3.6	3.6	.9	.0	.0	69	.0	8.9
-1	.0	.0	1.0	3.3	4.8	1.0	.0	.0	79	.0	10.2
-2	.0	.1	1.2	6.3	3.9	.4	.0	.0	92	.0	11.8
-3	.0	.4	1.9	4.5	3.0	.0	.0	.0	76	.1	9.6
-4	.0	.4	2.6	7.7	2.6	.0	.0	.0	103	.0	13.2
-5	.1	.5	3.0	3.6	1.0	.1	.0	.0	65	.0	8.4
-6	.1	.4	2.4	4.2	.3	.0	.0	.0	57	.0	7.3
-7/-8	.3	1.3	3.5	2.2	.1	.0	.0	.0	37	.0	7.3
-9/-10	.3	1.3	2.2	.9	.0	.0	.0	.0	36	.0	4.6
-11/-13	.4	.8	.9	.0	.0	.0	.0	.0	16	.0	2.1
-14/-16	.0	.3	.1	.0	.0	.0	.0	.0	3	.0	.4
-17/-19	.1	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	9	42	160	295	213	51	1	778	100.0	.1	99.9
PCT	1.2	5.4	20.6	37.9	27.3	6.6	.9	.1			

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.8	.0	.0	.0	.0	2.1	.1	1.6	.0	.0	.0	.0	1.7
1-2	.0	2.5	.4	.0	.0	.0	2.9	.0	3.2	1.1	.0	.0	.0	4.3
3-4	.4	1.7	2.1	.0	.0	.0	4.1	.0	1.8	.8	.0	.0	.0	2.5
5-6	.0	.0	1.5	.0	.0	.0	1.5	.0	.0	1.3	.0	.0	.0	1.3
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	6.0	4.3	.0	.0	.0	11.0	.1	6.6	3.6	.0	.0	.0	10.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.1	.0	.0	.0	.0	1.1	.4	1.9	.8	.0	.0	.0	.8
1-2	.0	2.7	.4	.0	.0	.0	3.1	.4	3.9	2.4	.1	.0	.0	3.1
3-4	.0	1.4	1.6	.0	.0	.0	3.0	.0	1.1	3.6	.0	.0	.0	6.5
5-6	.0	.0	.8	.0	.0	.0	.8	.0	.0	.4	.4	.0	.0	4.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.4	.0	.0	.8
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.4	.4	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.3	2.7	.4	.0	.0	8.4	.8	7.9	7.2	1.2	.4	.0	16.9

PERIOD: (OVER-ALL) 1963-1970

APRIL

AREA 0006 COFFS HARBOUR
30.35 153.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0		.0	.0	1.1	.0	.0	.0	.0		1.1
1-2	.0	2.5	2.8	.0	.0	.0	5.4	.0	.0	2.6	2.3	.0	.0	.0		5.0
3-4	.0	1.4	2.8	1.3	.0	.0	5.5	.0	.0	2.5	2.1	1.2	.0	.0		5.8
5-6	.0	.4	2.6	2.9	.0	.0	5.9	.0	.0	.1	2.1	.5	.0	.0		2.6
7	.0	.0	.8	1.0	.0	.0	1.8	.0	.0	.0	.4	1.6	.0	.0		2.0
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.4	.0	.0		.4
10-11	.0	.0	.4	1.4	.0	.0	1.8	.0	.0	.0	.0	.1	.4	.0		.5
12	.0	.0	.4	.8	.7	.0	1.8	.0	.0	.0	.0	.0	.1	.0		.1
13-16	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	4.3	10.2	7.4	1.8	.0	23.7	.0	.0	6.4	6.9	3.8	.5	.0		17.5

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	1.1	.0	.0	.0	.0	1.1	.0	.0	1.1	.0	.0	.0	.0		1.1	
1-2	.4	2.0	.3	.0	.0	.0	2.6	.0	.0	2.4	.1	.0	.0	.0		2.5	
3-4	.0	.0	.7	.0	.0	.0	.7	.0	.0	.4	.4	.0	.0	.0		.8	
5-6	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.2	.0	.0	.0		.2	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0		.4	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.4	3.4	.9	.0	.0	.0	4.7	.0	.0	4.3	.7	.0	.0	.0		5.0	97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.4	8.2	.0	.0	.0	.0	11.6	
1-2	1.1	19.9	8.2	.0	.0	.0	29.2	
3-4	.4	13.1	12.7	2.6	.0	.0	28.8	
5-6	.0	1.9	12.0	3.4	.0	.0	17.2	
7	.0	.4	1.9	3.0	.4	.0	5.6	
8-9	.0	.0	.4	.7	.0	.0	1.1	
10-11	.0	.0	.7	2.2	.4	.0	3.4	
12	.0	.0	.4	.7	.7	.0	1.9	
13-16	.0	.0	.0	.0	.7	.0	.7	
17-19	.0	.0	.0	.0	.4	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.9	43.4	36.3	12.7	2.6	.0	100.0	267

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.9	6.7	11.3	5.2	2.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	94	4
6-7	.0	1.2	7.6	7.3	6.7	1.7	1.5	1.2	1.5	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	100	6
8-9	.0	1.2	3.2	6.1	6.7	4.9	2.6	.9	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	7
10-11	.0	.6	.6	.3	1.2	.6	1.2	1.7	.6	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	29	10
12-13	.0	.0	.0	.0	.6	.0	.3	.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	10
>13	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3	.0	.6	.0	.0	.0	.0	.0	.0	4	24
INDET	1.2	.3	2.0	.6	1.5	.3	.3	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	22	5
TOTAL	7	34	85	67	65	26	23	15	14	3	1	0	4	0	0	0	0	0	0	344	6
PCT	2.0	9.9	24.7	19.5	18.9	7.6	6.7	4.4	4.1	.9	.3	.0	1.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1857-1971

MAY

AREA 0006 COFFS HARBOUR
30.35 153.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	5.4	3.6	.0	.0	.0	.0	.0	8.9	1.2	3.6	1.2	.0	.0	.0	86.3
NE	13.2	2.9	4.9	.0	.0	.0	.0	21.0	.0	2.0	2.0	.0	.0	.0	75.1
E	13.2	9.5	2.1	.0	.0	.0	.0	24.9	1.1	3.2	.0	.0	.0	.0	74.1
SE	3.7	3.7	.7	.0	.0	.0	.0	8.1	4.0	2.2	.0	.0	.4	.0	86.0
S	5.2	10.0	1.0	.0	.0	.0	.0	16.2	1.2	1.3	.0	.0	1.8	.0	79.8
SW	3.6	7.3	.0	.0	.0	.0	.0	10.9	1.3	1.7	.0	.0	.5	.0	85.7
W	4.4	.0	.0	.0	.0	.0	.0	4.4	.9	3.1	.0	.0	3.1	.0	89.6
NW	3.8	.0	.0	.0	.0	.0	.0	3.8	1.3	4.4	1.3	.0	1.9	.0	89.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.1	.0	.0	.0	.0	90.9
TOT PCT	5.4	5.6	.7	.0	.0	.0	.0	11.8	1.3	2.5	.4	.0	1.1	.0	83.8
TOT OBS:	815														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	4.5	4.5	.9	.0	.0	.0	.0	10.0	.9	.9	.0	.0	1.4	.0	87.3
06009	5.3	4.9	.4	.0	.0	.0	.0	10.5	1.2	1.6	.8	.0	.4	.0	85.8
12015	5.8	5.2	.6	.0	.0	.0	.0	11.6	1.9	3.2	.6	.0	.6	.0	80.6
18021	7.2	7.7	1.4	.0	.0	.0	.0	16.3	1.4	3.3	.0	.0	1.9	.0	78.9
TOT PCT	5.6	5.5	.8	.0	.0	.0	.0	12.0	1.3	2.5	.4	.0	1.1	.0	83.5
TOT OBS:	832														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.2	5.3	3.7	.3	.0	.0		10.5	9.9	8.1	8.5	13.3	11.1	19.2	8.1	9.0	9.7	
NE	.6	3.0	2.1	.3	.1	.0		6.1	10.9	6.0	6.7	8.2	9.1	5.8	5.0	3.8	3.5	
E	.5	2.5	1.8	.7	.4	.0		5.9	13.6	4.6	5.6	5.5	8.3	9.3	5.8	6.3	4.1	
SE	.5	4.0	3.8	1.2	.5	.0		10.0	13.5	2.9	9.4	13.4	17.1	6.1	11.6	8.8	6.8	
S	.9	8.0	9.7	3.4	1.0	.0		23.0	14.7	18.1	23.8	34.8	29.7	23.3	16.9	13.5	18.4	
SW	.8	10.0	8.5	3.5	.6	.0		23.4	13.8	34.4	26.9	19.9	12.8	17.2	23.4	26.9	29.2	
W	.7	6.3	2.5	.7	.2	.0		10.2	10.7	14.0	8.0	2.7	6.8	6.1	15.9	16.4	15.4	
NW	1.0	3.8	2.3	.1	.0	.0		9.2	8.7	11.9	9.6	3.4	2.4	10.8	11.6	14.3	12.4	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.6							1.6	.0	.0	1.6	2.8	2.7	2.3	1.6	1.0	.5	
TOT OBS	106	614	473	140	38	0	1371		12.4		120	254	231	148	86	129	198	185
TOT PCT	7.7	44.8	34.5	10.2	2.8	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	3.2	6.0	1.3	.1	.0		10.5	9.9	8.4	12.5	12.6	9.3	
NE	1.7	3.2	1.0	.2	.0		6.1	10.9	6.3	8.5	5.3	3.7	
E	1.5	2.4	1.3	.7	.0		5.9	13.6	5.3	6.5	7.2	5.2	
SE	2.3	4.9	1.9	.7	.1		10.0	13.5	7.3	14.8	9.4	7.8	
S	4.1	10.0	8.8	1.7	.4		23.0	14.7	22.0	32.9	19.4	15.9	
SW	3.6	12.3	5.9	1.5	.1		23.4	13.8	29.3	14.8	20.9	28.0	
W	3.0	5.1	1.9	.3	.0		10.2	10.7	9.9	4.2	12.0	15.9	
NW	3.4	4.9	.9	.0	.0		9.2	8.7	10.4	3.0	11.3	13.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.6						1.6	.0	1.1	2.8	1.9	.8	
TOT OBS	335	689	287	71	9	1371		12.4	374	399	215	383	
TOT PCT	24.4	48.8	20.9	5.2	.7		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1857-1971

MAY

AREA 0006 COFFS HARBOUR
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.1	5.6	44.7	36.6	9.1	2.9	.0	12.4	100.0	374
06009	2.8	6.8	43.1	32.8	12.0	2.5	.0	12.3	100.0	399
12015	1.9	6.5	40.9	34.9	12.1	3.7	.0	13.1	100.0	215
18021	.8	5.7	48.8	33.9	8.4	2.3	.0	12.0	100.0	383
TOT	22	84	614	473	140	38	0	12.4		1371
PCT	1.6	6.1	44.8	34.5	10.2	2.8	.0		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	0.4	2.1	3.1	1.7		3.3
NE	1.5	.8	2.3	1.3		4.9
E	2.3	.1	3.1	1.3		4.8
SE	1.3	1.7	3.1	.9		4.8
S	8.2	3.9	7.7	4.4		4.3
SW	11.2	4.3	6.3	1.4		3.1
W	4.1	1.6	2.1	1.6		3.7
NW	3.5	1.5	2.5	1.1		3.8
VAR	.0	.0	.0	.0		.0
CALM	1.2	.0	.3	.3		3.0
TOT OBS	136	55	104	48	343	3.9
TOT PCT	39.7	16.0	30.3	14.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIRECTION												
	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.6	.3	.4	.0	.3	.0	.6	10.9	
NE	.0	.0	.0	.7	1.6	.4	.0	.0	.0	.0	3.3	
E	.0	.0	.3	.2	1.8	.9	.0	.0	.0	.0	3.6	
SE	.0	.0	.0	.9	1.4	.9	.4	.0	.0	.0	3.4	
S	.0	.0	.5	1.4	3.6	2.3	.7	.0	.0	.0	15.6	
SW	.0	.0	.1	.7	1.8	1.4	.4	.0	.1	.0	18.7	
W	.0	.0	.0	.4	.0	.0	.3	.0	.8	.7	7.2	
NW	.0	.0	.0	.1	.9	.6	.0	.0	.3	.1	6.6	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	
TOT OBS	0	0	3	17	40	24	6	1	4	5	243	343
TOT PCT	.0	.0	.9	5.0	11.7	7.0	1.7	.3	1.2	1.5	70.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
= OR >5000	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
= OR >3500	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
= OR >2000	9.5	11.2	11.2	11.2	11.2	11.2	11.2	11.2
= OR >1000	17.0	22.2	22.8	22.8	22.8	22.8	22.8	22.8
= OR >600	20.2	26.8	28.0	28.0	28.0	28.0	28.0	28.0
= OR >300	20.2	27.7	28.8	28.8	28.8	28.8	28.8	28.8
= OR >150	20.5	28.0	29.1	29.1	29.1	29.1	29.1	29.1
= OR > 0	20.5	28.0	29.1	29.1	29.1	29.1	29.1	29.1
TOTAL	71	97	101	101	101	101	101	101

TOTAL NUMBER OF OBS: 347

PCT FREQ NH <5/8: 70.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.3	22.0	18.2	9.5	6.1	6.4	11.0	3.1	10.5	.0	391

PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1857-1971

MAY

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
1<2	PCP	.1	.3	.0	.0	.0	.1	.0	.1	.0	.0	.6		
	NO PCP	.0	.0	.0	.0	.4	.1	.1	.1	.0	.0	.6		
	TOT %	.1	.3	.0	.0	.4	.2	.1	.1	.0	.0	1.2		
2<5	PCP	.0	.4	.4	.1	.5	*	.1	.0	.0	.0	1.5		
	NO PCP	.0	.0	.0	.1	.3	*	.0	.0	.0	.0	.5		
	TOT %	.0	.4	.4	.2	.8	.1	.1	.0	.0	.0	2.0		
5<10	PCP	.6	.3	.7	.4	2.5	2.0	.1	.3	.0	.0	6.9		
	NO PCP	1.7	1.3	1.6	3.2	6.2	6.7	3.6	2.8	.0	.4	27.5		
	TOT %	2.3	1.6	2.3	3.7	8.7	8.7	3.7	3.1	.0	.4	34.4		
10+	PCP	.2	.4	.4	.1	1.2	.4	.2	.0	.0	.0	2.8		
	NO PCP	7.7	3.7	2.7	4.3	14.4	13.8	5.7	6.5	.0	1.0	59.6		
	TOT %	7.9	4.0	3.1	4.4	15.5	14.1	5.9	6.5	.0	1.0	62.5		
TOT OBS														815
TOT PCT														100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.0	.0	.3	.0	.1	.1	.0	.0	.6	
	11-21	.0	.2	.0	.0	.1	.2	.0	.0	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.3	.0	.0	.4	.2	.1	.1	.0	.0	1.1	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.1	.0	.2	.2	.2	.0	.0	.0	.7	
	11-21	.0	.3	.2	.2	.6	.2	.0	.0	.0	.0	1.4	
	22+	.0	.0	.1	.3	.2	*	.0	.0	.0	.0	.5	
	TOT %	.0	.3	.4	.5	1.0	.4	.2	.0	.0	.0	2.6	
5<10	0-3	.7	.4	.3	.1	.4	.6	.2	.2	.0	.3	3.0	
	4-10	.8	.6	.8	1.2	2.5	2.6	2.1	1.7	.0	.0	12.4	
	11-21	.3	.5	.5	1.6	2.6	3.2	.7	.6	.0	.0	10.1	
	22+	.1	.1	.6	1.2	2.2	1.6	.2	*	.0	.0	5.9	
	TOT %	1.9	1.6	2.2	4.1	7.7	8.0	3.2	2.5	.0	.3	31.4	
10+	0-3	.6	.3	.2	.4	.9	.4	.3	.9	.0	1.0	4.9	
	4-10	3.3	1.8	1.7	3.4	5.8	7.4	4.2	4.1	.0	.0	31.7	
	11-21	3.7	1.3	.9	2.0	7.6	5.2	1.4	1.6	.0	.0	23.6	
	22+	.3	.3	.3	.4	1.5	1.4	.4	*	.0	.0	4.5	
	TOT %	7.8	3.7	3.1	6.2	15.8	14.3	6.2	6.6	.0	1.0	64.8	
TOT OBS													993
TOT PCT													100.0

MAY

PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1857-1971AREA 0006 COFFS HARBOUR
30.35 153.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8300+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.9	.9	1.7	7.8	7.0	1.7	.0	.9	1.7	22.6	77.4	115
06009	.0	.0	.8	5.9	14.4	3.4	3.4	.0	.0	1.7	29.7	70.3	118
12015	.0	.0	1.2	7.4	11.1	9.9	.0	.0	2.5	.0	32.1	67.9	81
18021	.0	.0	.0	5.2	8.6	6.9	.0	1.7	1.7	1.7	25.9	74.1	58
TOT	0	1	3	18	40	24	6	1	4	5	102	270	372
PCT	.0	.3	.8	4.8	10.8	6.5	1.6	.3	1.1	1.3	27.4	72.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	1.2	1.9	22.1	74.8	258
06009	.0	.3	.3	2.0	32.6	64.8	298
12015	.0	.0	1.1	2.9	30.9	65.1	175
18021	.0	.4	1.8	4.3	40.1	53.4	279
TOT	0	2	11	28	320	649	1010
PCT	.0	.2	1.1	2.8	31.7	64.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <500D	<600 <1	<1000 <5	1000+ AND5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	1.9	3.7	20.4	75.9	108
06009	.0	.9	8.2	23.6	68.2	110
12015	.0	1.3	9.1	24.7	66.2	77
18021	.0	.0	7.7	19.2	73.1	52
TOT	0	4	24	77	246	347
PCT	.0	1.2	6.9	22.2	70.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.2	.0	.4	.0	.2	.4	.2	.6	10	1.9
70/74	.0	.2	1.5	2.6	8.6	7.5	3.6	1.9	138	25.8
65/69	.0	.6	1.5	8.2	10.7	12.5	9.3	4.3	232	47.1
60/64	.0	.2	.9	2.4	5.4	5.2	6.7	1.1	118	22.1
55/59	.0	.0	.2	.6	.6	.4	1.3	.2	17	3.2
TOTAL	1	9	24	74	136	139	113	43	595	100.0
PCT	.2	.9	4.5	13.8	25.4	26.0	21.1	8.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.7	.2	.0	*	.6	.3	.0	.0	.0	.0
6.1	2.3	2.4	2.4	5.2	2.6	1.2	2.5	.0	1.1
3.4	1.2	3.4	4.5	14.2	11.8	4.7	3.4	.0	.6
.2	.1	.6	.6	7.0	8.5	2.3	2.7	.0	.2
.0	.0	.0	.1	.8	.9	.7	.6	.0	.0
10.4	3.8	6.4	7.7	27.9	24.1	8.9	9.2	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	80	77	74	68	61	59	57	67.8	372
06009	81	77	74	68	62	60	58	67.9	396
12015	75	73	72	66	59	57	52	66.0	214
18021	76	73	71	65	58	55	52	64.6	379
TOT	81	76	73	67	59	57	52	66.7	1361

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	15.9	31.8	27.2	18.5	6.6	71	131		
06009	.6	29.7	27.9	23.6	10.3	7.9	67	165		
12015	.0	18.8	17.8	25.7	28.7	8.9	73	101		
18021	.0	11.5	18.5	27.7	32.3	10.0	75	130		
TOT	1	107	136	142	116	45	71	547		

PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1857-1971

MAY

AREA 0006 COFFS HARBOUR
30.33 153.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	NO FOG
7/8	.0	.0	.0	.0	.3	.0	.4	5	.0	.7
6	.0	.0	.0	.1	.0	.1	.1	3	.0	.4
5	.0	.0	.1	.0	.4	.1	.3	7	.0	.9
4	.0	.0	.0	.0	.1	.0	.1	2	.0	.3
3	.0	.0	.1	.3	.1	.1	.0	5	.0	.7
2	.0	.0	.0	.4	1.2	.5	.0	16	.0	2.2
1	.0	.0	.0	.7	.9	.8	.3	20	.0	2.7
0	.0	.0	.8	1.7	2.7	1.1	.0	47	.1	6.1
-1	.0	.0	.7	1.7	3.2	1.1	.0	50	.0	6.7
-2	.0	.0	.7	4.5	5.1	.4	.0	80	.0	10.7
-3	.0	.0	.8	4.7	4.4	.3	.0	76	.0	10.1
-4	.0	.1	2.0	5.7	3.5	.3	.0	87	.0	11.6
-5	.1	.3	3.3	6.4	3.5	.1	.0	103	.0	13.7
-6	.0	.1	2.0	5.2	1.3	.1	.0	66	.0	8.8
-7/-8	.0	1.2	4.4	6.5	.7	.0	.0	96	.1	12.7
-9/-10	.0	1.3	4.1	1.6	.0	.0	.0	53	.1	6.9
-11/-13	.0	.9	2.5	.3	.0	.0	.0	28	.0	3.7
-14/-16	.0	.7	.1	.0	.0	.0	.0	6	.0	.8
TOTAL	1		163		203		9	750	.4	99.6
PCT	.1	35	299	27.3	5.1	1.2		100.0		

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.8	1.1	.0	.0	.0	.0	1.9	.4	.0	.0	.0	.0	.0	.4
1-2	.0	3.9	2.6	.0	.0	.0	6.5	.0	1.0	1.4	.0	.0	.0	2.5
3-4	.4	.3	3.1	.0	.0	.0	3.8	.0	.4	1.4	.0	.0	.0	1.8
5-6	.0	.0	1.9	.3	.0	.0	2.3	.0	.4	.9	.0	.0	.0	1.3
7	.0	.0	.4	.3	.0	.0	.7	.0	.0	.0	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.4	.3	.0	.0	15.6	.4	1.8	3.8	.3	.0	.0	6.6
TOT PCT	1.2	5.3	8.4	.6	.0	.0								

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.4	.0	.0	.0	.0	.4	.4	.5	.0	.0	.0	.0	.9
1-2	.0	2.8	1.1	.0	.0	.0	3.9	.0	1.2	.9	.0	.0	.0	2.2
3-4	.0	2.9	.4	.0	.0	.0	3.3	.0	.8	2.3	.0	.0	.0	3.1
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.4	.1	.0	.0	.0	.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.4	3.0	3.3	.0	.0	.0	6.7
TOT PCT	.0	6.0	2.4	.0	.0	.0	8.4							

PERIOD: (OVER-ALL) 1963-1971

MAY

AREA 0006 COFFS HARBOUR
30.35 153.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.0	.7	.0	.0	.0	.0	.7	.0	1.2	.0	.0	.0	.0	.0	1.2
1-2	.0	2.7	1.0	.0	.0	.0	3.7	.0	5.2	1.8	.0	.0	.0	.0	7.1
3-4	.0	3.6	4.1	.0	.0	.0	7.7	.0	4.2	3.5	.0	.0	.0	.0	7.7
5-6	.0	.3	5.7	2.8	.0	.0	8.8	.0	.5	1.1	1.3	.0	.0	.0	3.0
7	.0	.0	.8	.0	.0	.0	.8	.0	.8	.8	2.9	.0	.0	.0	4.5
8-9	.0	.0	.4	.3	.0	.0	.7	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	7.3	12.1	3.9	.3	.0	23.6	.0	12.0	7.3	4.7	.1	.0	24.1	

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.4	1.2	.0	.0	.0	.0	1.6	.4	.1	.0	.0	.0	.0	.0	.5	
1-2	.0	3.1	.8	.0	.0	.0	3.9	.0	3.1	.9	.0	.0	.0	.0	4.4	
3-4	.0	.7	.0	.0	.0	.0	.7	.0	.0	1.2	.0	.0	.0	.0	1.8	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
7	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.1	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	5.0	.8	.0	.3	.0	6.6	.8	3.8	2.2	.1	.1	.0	7.0	98.4	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.1	5.3	.0	.0	.0	.0	9.4	
1-2	.4	23.0	10.7	.0	.0	.0	34.0	
3-4	.4	13.5	16.0	.0	.0	.0	29.9	
5-6	.0	1.6	10.2	4.3	.0	.0	16.4	
7	.0	.8	2.0	3.7	.4	.0	7.0	
8-9	.0	.0	.8	.4	.0	.0	1.2	
10-11	.0	.0	.0	.8	.0	.0	.8	
12	.0	.0	.0	.0	.4	.0	.8	
13-16	.0	.0	.4	.0	.0	.0	.4	
17-19	.0	.0	.0	.4	.0	.0	.4	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.9	44.3	40.2	9.8	.8	.0	100.0	244

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	11.3	13.4	4.9	3.4	.9	.9	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	119	4
6-7	.0	.9	9.8	14.3	6.1	4.0	.9	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	121	5
8-9	.0	.9	2.4	5.2	4.3	1.2	.9	.3	1.5	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	56	7
10-11	.0	.3	.0	.0	.3	.3	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	8
12-13	.0	.0	.0	.0	.6	.3	.9	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	10
>13	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	2	18
INDET	.9	1.2	1.2	.6	.0	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	328	5
TOTAL	7	48	88	82	48	23	14	5	10	1	1	1	0	0	0	0	0	0	0	100.0	
PCT	2.1	14.6	26.8	25.0	14.6	7.0	4.3	1.5	3.0	.3	.3	.3	.0	.0	.0	.0	.0	.0	.0		

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	6.8	5.1	.0	.0	.0	.0	.0	11.9	1.7	8.1	.0	.0	1.3	.0	78.7
NE	6.8	8.1	5.4	.0	.0	.0	.0	20.3	.0	6.1	.0	.0	.7	.0	73.0
E	13.0	15.0	.0	.0	.0	.0	.0	28.0	2.9	5.8	.0	.0	.0	.0	65.2
SE	8.0	16.4	.3	.0	.0	.0	.0	24.4	5.8	5.3	.0	.0	.0	.0	67.6
S	7.9	11.9	2.9	.0	.0	.0	.0	22.4	2.3	3.8	.7	.0	.0	.0	71.8
SW	7.8	4.7	.8	.0	.0	.0	.0	13.2	1.9	2.2	.7	.0	.4	.0	81.7
W	1.4	2.1	.0	.0	.0	.0	.0	3.4	.9	3.7	.0	.0	.0	.0	92.9
NW	1.7	3.4	.0	.0	.0	.0	.0	5.1	1.1	2.3	.0	.0	.0	.0	92.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	6.6	7.9	1.1	.0	.0	.0	.0	15.6	2.2	3.9	.3	.0	.2	.0	78.9
TOT OBS:	881														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	4.5	8.5	.4	.0	.0	.0	.0	13.4	4.9	.4	.0	.0	.4	.0	80.8
06009	4.7	5.8	1.1	.0	.0	.0	.0	11.5	1.4	2.5	.4	.0	.4	.0	84.2
12015	10.0	7.3	.0	.0	.0	.0	.0	17.3	.7	9.3	.0	.0	.0	.0	74.7
18021	8.8	10.0	2.4	.0	.0	.0	.0	20.7	1.6	4.8	.4	.0	.0	.0	74.1
TOT PCT	6.6	7.9	1.1	.0	.0	.0	.0	15.5	2.2	3.8	.3	.0	.2	.0	79.0
TOT OBS:	903														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+ TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47						00	03	06	09	12	15	18	21
N	.7	3.2	1.7	.2	.0	.0	.0	5.7	8.7	2.5	6.9	6.0	4.8	5.4	6.3	7.0	4.9	
NE	.4	2.2	1.1	.0	.0	.0	.0	3.7	8.6	.8	2.2	6.1	3.7	3.3	4.4	5.2	2.2	
E	.5	2.2	2.3	.7	.1	.1	.1	5.9	13.4	4.0	6.3	7.8	9.0	5.8	5.9	3.6	4.4	
SE	.3	4.4	3.5	2.5	.7	.2	.2	11.7	16.5	11.6	11.9	13.1	13.0	12.7	10.4	10.3	10.9	
S	1.2	8.4	8.7	4.0	1.2	.2	.2	23.7	15.0	17.2	22.0	31.3	29.3	25.4	21.5	21.1	19.3	
SW	1.0	7.8	10.2	5.0	1.5	.1	.1	25.5	16.1	29.4	25.8	21.7	23.3	22.7	25.6	28.5	27.1	
W	.8	5.7	4.7	1.4	.6	.0	.0	13.2	13.1	23.3	15.0	6.0	9.5	9.6	13.7	12.5	18.4	
NW	.5	5.8	2.6	.2	.0	.0	.0	9.2	9.3	11.1	9.5	6.5	5.3	10.4	10.7	9.8	11.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.4							1.4	.0	.0	.4	1.5	2.0	4.6	1.5	1.8	1.0	
TOT OBS	95	560	489	198	57	8	1407		13.8		119	253	259	130	65	135	220	206
TOT PCT	6.8	39.8	34.8	14.1	4.1	.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							41+ TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40							00	06	12	18
N	2.8	2.4	.6	.0	.0	.0	.0	5.7	8.7	5.5	5.6	6.0	6.0	
NE	1.6	2.0	.1	.0	.0	.0	.0	3.7	8.6	1.7	5.2	4.1	3.8	
E	1.7	2.1	1.7	.3	.1	.1	.1	5.9	13.4	5.6	8.3	5.9	4.0	
SE	2.2	4.4	2.9	1.9	.2	.2	.2	11.7	16.5	11.8	13.1	11.1	10.6	
S	5.0	9.6	6.6	1.8	.7	.7	.7	23.7	15.0	20.5	30.6	22.8	20.2	
SW	4.0	10.0	8.4	2.6	.6	.6	.6	25.5	16.1	26.9	22.3	24.6	27.8	
W	3.1	6.1	2.9	1.0	.1	.1	.1	12.2	13.1	17.7	7.3	12.4	15.4	
NW	3.7	4.3	1.2	.1	.0	.0	.0	9.2	9.3	10.0	6.1	10.6	10.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.4							1.4	.0	.3	1.7	2.5	1.4	
TOT OBS	357	576	343	108	23	1407			13.8		372	409	200	426
TOT PCT	25.4	40.9	24.4	7.7	1.6			100.0			100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

PERCENTAGE FREQUENCY OF WIND											
HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS	
				11-21	22-33	34-47					
00003	.3	4.3	42.2	33.6	15.6	3.0	1.1	14.1	100.0	372	
06009	1.7	7.6	38.4	31.1	15.9	4.6	.7	13.9	100.0	409	
12015	2.5	6.5	34.0	39.0	12.0	5.5	.5	14.1	100.0	200	
18021	1.4	3.8	41.8	37.3	12.0	3.8	.0	13.3	100.0	426	
TOT	19	76	560	489	198	57	8	13.8		1407	
PCT	1.4	5.4	39.8	34.8	14.1	4.1	.6		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	2.5	.7	1.8	.0		3.3
NE	1.1	.4	1.7	.3		4.2
E	1.5	.2	2.0	2.7		5.7
SE	1.5	2.1	3.9	4.7		5.9
S	6.6	3.7	7.0	2.7		4.2
SW	13.6	3.1	7.5	2.5		3.4
W	11.8	2.8	1.9	.2		2.0
NW	6.8	.8	.8	.3		1.7
VAR	.0	.0	.0	.0		.0
CALM	.3	.3	.0	.0		2.5
TOT OBS	138	43	80	41	302	3.6
TOT PCT	45.7	14.2	26.5	13.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	4.1
NE	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	2.8
E	.0	.0	.3	1.3	1.9	.8	.0	.0	.0	.0	.0	2.1
SE	.0	.3	.7	2.2	2.4	.5	.4	.0	.0	.0	.0	5.7
S	.7	.0	.3	1.9	3.1	.7	.6	.0	.0	.0	.0	12.7
SW	.0	.0	.7	1.3	3.1	1.9	.3	.3	.0	.0	.1	18.1
W	.0	.0	.0	.2	.0	.7	.0	.0	.0	.0	.0	8.0
NW	.0	.0	.0	.0	.7	.0	.0	.1	.0	.0	.0	.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT OBS	138	43	80	41	302	15	4	2	.0	.0	.0	302
TOT PCT	45.7	14.2	26.5	13.6	100.0	5.0	1.3	.7	.0	.0	.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
= OR >5000	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >3500	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
= OR >2000	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
= OR >1000	15.8	18.1	19.4	19.4	19.4	19.4	19.4	19.4
= OR >600	20.6	24.8	26.5	26.5	26.8	26.8	26.8	26.8
= OR >300	21.3	26.1	28.1	28.1	28.7	28.7	28.7	28.7
= OR >150	21.3	26.5	28.4	28.4	29.0	29.0	29.0	29.0
= OR >0	21.6	27.4	29.7	29.7	30.3	30.3	30.3	30.3
TOTAL	67	85	92	92	94	94	94	94

TOTAL NUMBER OF OBS: 310

PCT FREQ NH <5/8: 69.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	16.9	25.8	9.2	8.1	8.1	4.4	7.8	8.9	10.6	.3	360

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.1	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3
1<2	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1
2<5	PCP	.0	.0	.1	.1	.6	.1	.1	.0	.0	.0	.0	1.0
	NO PCP	.1	.0	.1	.1	.2	.3	.0	.0	.0	.0	.0	.8
	TOT %	.1	.0	.2	.2	.8	.4	.1	.0	.0	.0	.0	1.8
5<10	PCP	.6	.6	1.2	1.9	3.6	2.4	.3	.3	.0	.0	.0	10.9
	NO PCP	2.6	1.6	2.0	3.3	9.1	8.8	3.7	3.6	.0	.1	.1	34.7
	TOT %	3.2	2.3	3.1	5.2	12.6	11.2	3.9	3.9	.0	.1	.1	45.6
10+	PCP	.1	.2	.3	.6	1.0	.9	.1	.2	.0	.0	.0	3.2
	NO PCP	3.2	1.7	2.2	4.7	9.1	13.4	8.3	6.0	.0	.3	.3	48.9
	TOT %	3.3	1.9	2.5	5.2	10.0	14.2	8.4	6.2	.0	.3	.3	52.1
TOT OBS													881
TOT PCT		6.7	4.2	5.9	10.7	23.6	26.0	12.4	10.1	.0	.9	.9	100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2
	TOT %	.1	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.0	.0	.2	.1	.1	.1	.0	.0	.0	.7
	11-21	.0	.0	.0	.1	.4	.3	.0	.0	.0	.0	.0	1.0
	22+	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.0	.4
	TOT %	.1	.0	.2	.2	.8	.5	.1	.1	.0	.0	.0	2.2
5<10	0-3	.2	.1	.1	.0	.9	.4	.5	.0	.0	.2	.2	2.6
	4-10	1.7	1.0	1.4	1.6	3.2	2.0	1.1	2.6	.0	.0	.0	14.6
	11-21	1.1	1.0	.7	1.9	3.9	3.9	1.5	1.0	.0	.0	.0	15.0
	22+	.0	.0	.7	1.5	3.1	3.7	.4	.0	.0	.0	.0	9.4
	TOT %	3.0	2.1	2.8	5.1	11.2	10.0	3.6	3.7	.0	.2	.2	41.6
10+	0-3	.5	.3	.4	.2	.3	.5	.4	.3	.0	.7	.3	3.6
	4-10	2.0	1.4	.9	2.6	4.4	5.3	4.3	4.3	.0	.0	.0	23.3
	11-21	.8	.2	.9	1.0	4.1	5.8	3.6	1.9	.0	.0	.0	18.4
	22+	.1	.0	.1	1.9	2.2	3.2	.7	.2	.0	.0	.0	8.5
	TOT %	3.5	2.0	2.4	5.8	11.0	14.9	9.0	6.7	.0	.7	.7	55.8
TOT OBS													1019
TOT PCT		6.7	4.1	5.4	11.1	23.0	25.6	12.7	10.6	.0	.9	.9	100.0

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.9	.0	.9	6.3	12.5	3.6	1.8	.0	.0	1.8	27.7	72.3	112
06009	1.0	.0	1.9	4.8	8.7	3.8	1.9	1.0	.0	.0	23.1	76.9	104
12015	1.7	1.7	1.7	10.2	3.4	3.4	.0	.0	.0	.0	22.0	78.0	59
18021	1.6	.0	3.1	7.8	18.8	7.8	.0	1.6	.0	.0	40.6	59.4	64
TOT	4	1	6	23	37	15	4	2	0	2	94	245	339
PCT	1.2	.3	1.8	6.8	10.9	4.4	1.2	.6	.0	.6	27.7	72.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.4	.0	2.7	33.7	63.1	255
06009	.0	.3	.3	1.9	45.8	51.6	312
12015	.0	.0	.0	2.5	35.2	62.3	162
18021	.0	.3	.0	1.6	48.7	49.4	312
TOT	0	3	1	22	438	577	1041
PCT	.0	.3	.1	2.1	42.1	55.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ ANDS+	NM <5/8 AND 5+	TOTAL OBS
00003	1.0	2.9	9.7	20.4	69.9	103
06009	1.1	3.2	9.6	16.0	74.3	94
12015	1.9	5.6	20.4	3.7	75.9	54
18021	1.7	5.1	13.6	20.3	55.9	59
TOT	4	12	38	56	216	310
PCT	1.3	3.9	12.3	18.1	69.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.2	.0	.4	.0	.0	.0	3	.6
70/74	.0	.2	.2	.6	1.5	.8	.0	.6	20	3.8
65/69	.0	.9	2.4	6.0	8.5	11.7	7.7	1.7	207	39.0
60/64	.0	.6	1.7	4.5	9.8	12.4	10.7	4.9	237	44.6
55/59	.0	.0	.0	1.3	2.6	2.8	3.0	1.7	98	10.9
50/54	.0	.0	.0	.2	.4	.0	.4	.2	6	1.1
TOTAL	0	9	24	67	123	144	116	48	531	100.0
PCT	.0	1.7	4.5	12.6	23.2	27.1	21.8	9.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.1	.1	.2	.0	.0	.2	.0	.0
.6	.0	.9	.2	1.2	.4	.3	.1	.0	.0
4.0	2.6	3.5	6.8	7.8	6.5	2.7	4.5	.0	.6
1.6	1.5	1.9	4.5	11.6	12.1	6.9	4.9	.0	.0
.2	.0	.0	1.2	1.6	4.7	2.4	.8	.0	.0
.0	.0	.0	.0	.0	.2	.7	.3	.0	.0
6.4	4.1	6.0	12.9	22.4	23.9	12.9	10.8	.0	.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	74	73	70	64	58	56	50	64.2	370
06009	77	74	70	64	59	56	51	64.6	415
12015	70	69	68	63	57	52	51	62.6	202
18021	72	70	67	62	55	52	50	61.6	423
TOT	77	72	69	63	57	53	50	63.3	1410

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	16.6	26.8	28.0	17.8	10.8	72	157		
06009	.0	26.3	26.5	22.3	15.1	9.6	68	166		
12015	.0	21.0	23.5	27.2	22.2	6.2	71	81		
18021	.0	9.8	16.8	32.2	32.2	9.1	76	143		
TOT	0	101	129	149	117	91	72	567		

JUNE

PERIOD: (PRIMARY) 1909-1970
(OVER-ALL) 1858-1970

TABLE 17

AREA 0006 COFFS HARBOUR
30.3S 153.3EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	NO FOG
7/8	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
6	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
5	.0	.0	.0	.1	.3	.1	.0	.0	4	.0	.5
4	.0	.0	.1	.3	.6	.4	.0	.0	11	.0	1.4
3	.0	.0	.0	.5	.4	.3	.1	.0	12	.1	1.4
2	.0	.0	.3	.3	.9	1.3	.4	.0	24	.1	2.9
1	.0	.0	.1	.6	1.3	.8	.1	.0	23	.0	2.9
0	.0	.0	.5	1.4	1.5	1.4	.0	.0	38	.0	4.8
-1	.0	.0	.4	.9	3.3	1.1	.1	.0	46	.0	5.8
-2	.0	.1	.8	2.7	3.3	1.0	.0	.0	62	.0	7.9
-3	.0	.0	.4	4.2	4.1	.4	.0	.0	71	.0	9.0
-4	.1	.0	.5	4.7	4.4	.3	.0	.0	79	.0	10.0
-5	.0	.3	1.4	7.2	3.8	.0	.0	.0	100	.0	12.7
-6	.0	.0	.6	7.5	2.7	.1	.0	.0	86	.0	10.9
-7/-8	.0	.5	3.0	10.4	1.8	.0	.0	.0	124	.1	15.6
-9/-10	.0	.4	3.7	4.4	.5	.0	.0	.0	71	.0	9.0
-11/-13	.0	.8	1.5	.4	.0	.0	.0	.0	21	.0	2.7
-14/-16	.3	.6	.4	.3	.0	.0	.0	.0	12	.0	1.5
-17/-19	.0	.3	.0	.0	.0	.0	.0	.0	2	.0	.3
TOTAL	3	23	108	361	228	57	7	1	788	3	785
PCT	.4	2.9	13.7	45.8	28.9	7.2	.9	.1	100.0	.4	99.6

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.8	.3	.0	.0	.0	.0		1.1	.4	1.2	.0	.0	.0	.0		1.6
1-2	.3	1.2	1.0	.0	.0	.0		2.4	.0	.5	.4	.0	.0	.0		.9
3-4	.0	1.0	.7	.4	.0	.0		2.0	.0	.0	.1	.0	.0	.0		.1
5-6	.0	.0	.0	.0	.0	.0		.0	.0	.0	.4	.0	.0	.0		.4
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.1	2.4	1.6	.4	.0	.0		5.5	.4	1.6	.9	.0	.0	.0		2.9

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.8	.0	.0	.0	.0	.0		.8	.0	1.3	.0	.0	.0	.0		1.3
1-2	.4	.7	.0	.0	.0	.0		1.1	.0	1.4	.4	.0	.0	.0		1.7
3-4	.0	1.0	.8	.4	.0	.0		2.1	.4	1.4	.3	.4	.0	.0		2.6
5-6	.0	.0	.8	.3	.0	.0		1.1	.0	.0	1.6	.6	.0	.0		2.2
7	.0	.0	.7	.0	.0	.0		.7	.0	.1	.7	1.6	.0	.0		2.4
8-9	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.5	.0	.0		.5
10-11	.0	.0	.3	.0	.0	.0		.3	.0	.0	.1	.8	.0	.0		.9
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.8	.0		.8
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.8	.0		.8
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.2	1.6	2.5	1.0	.0	.0		6.3	.4	4.1	3.3	3.9	1.6	.0		13.2

PERIOD: (OVER-ALL) 1963-1970

JUNE

AREA 0006 COFFS HARBOUR
30.35 153.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	1.3	.0	.0	.0	.0	1.6	.0	2.1	.0	.0	.0	.0	2.1
1-2	.0	2.0	1.0	.0	.0	.0	3.0	.0	3.1	1.9	.0	.0	.0	5.0
3-4	.0	3.7	3.7	.6	.0	.0	7.9	.0	1.7	2.0	1.0	.0	.0	4.7
5-6	.0	.0	2.5	1.1	.0	.0	3.6	.0	.5	3.4	1.6	.0	.0	5.4
7	.0	.3	1.3	2.2	.0	.0	3.8	.0	.0	.9	1.9	.0	.0	2.8
8-9	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.3	.4	.0	.0	.7	.0	.0	.1	.0	.4	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	1.2	.6	.0	1.7
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	7.3	8.7	5.0	1.0	.0	22.4	.0	7.5	8.3	6.0	1.2	.0	23.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	2.1	.3	.0	.0	.0	2.4	.4	1.1	.1	.0	.0	.0	1.6	
1-2	.0	4.7	1.6	.0	.0	.0	6.4	.1	3.9	1.1	.0	.0	.0	5.0	
3-4	.0	.4	.0	.4	.0	.0	.8	.0	1.4	1.9	.4	.0	.0	3.7	
5-6	.0	.3	2.5	.0	.0	.0	2.8	.0	.0	.4	.4	.0	.0	.4	
7	.0	.0	.4	1.2	.0	.0	1.6	.0	.0	.0	.4	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	7.6	4.8	1.6	.6	.0	14.5	.5	6.3	3.5	.8	.0	.0	11.0	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.0	9.2	.4	.0	.0	.0	14.5	
1-2	1.1	17.2	7.3	.0	.0	.0	25.6	
3-4	.4	10.3	9.5	3.4	.0	.0	23.7	
5-6	.0	.8	11.5	3.4	.0	.0	15.6	
7	.0	.4	3.8	7.3	.0	.0	11.5	
8-9	.0	.0	.0	1.9	.0	.0	1.9	
10-11	.0	.0	.8	1.1	.4	.0	2.3	
12	.0	.0	.0	.0	.8	.0	.8	
13-16	.0	.0	.0	1.1	1.1	.0	2.3	
17-19	.0	.0	.0	.0	.8	.0	.8	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	1.1	.0	1.1	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.5	37.8	33.2	18.3	4.2	.0	100.0	262

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.3	8.5	13.5	6.6	2.5	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	103	4
6-7	.0	.0	3.8	7.2	5.3	3.8	2.2	1.3	.6	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	82	7
8-9	.0	.3	3.1	2.5	4.1	4.4	4.1	.6	.6	.3	.0	.3	.3	.0	.0	.0	.0	.0	.0	66	8
10-11	.0	.0	.6	1.6	3.1	1.9	.6	.6	.0	.0	.3	.0	.6	.0	.0	.0	.0	.0	.0	30	9
12-13	.0	.0	.9	.0	.6	1.3	.3	.3	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	8
13-14	.0	.0	.0	.0	.0	.3	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	13
15-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	19	4
INDET	2.5	.6	.3	.0	1.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	319	6
TOTAL	9	30	71	57	54	38	28	9	11	6	2	1	3	0	0	0	0	0	0	100.0	
PCT	2.8	9.4	22.3	17.9	16.9	11.9	8.8	2.8	3.4	1.9	.6	.3	.9	.0	.0	.0	.0	.0	.0		

JULY

PERIOD: (PRIMARY) 1912-1970
(OVER-ALL) 1855-1970AREA 0006 COFFS HARBOUR
30.35 153.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.7	.0	1.1	.0	.0	.0	.0	3.8	.0	1.1	2.7	.0	.0	.0	92.4
NE	3.0	9.0	.0	.0	.0	.0	.0	11.9	.7	.0	4.5	.0	.7	.0	82.1
E	9.7	14.2	.0	.0	.0	.0	.0	23.9	5.3	3.5	3.5	.0	2.7	.0	61.1
SE	6.0	8.1	.0	.0	.0	.0	.0	14.1	.7	2.7	.0	.0	.0	.0	82.6
S	1.8	8.9	.6	.0	.0	.0	.0	11.3	.8	1.8	.0	.0	.8	.0	85.6
SW	4.9	1.6	.7	.0	.0	.0	.0	7.2	.8	2.0	.3	.0	.8	.0	89.7
W	2.6	2.3	1.2	.0	.0	.0	.0	6.1	1.0	2.5	.3	.0	.3	.0	90.4
NW	1.5	3.8	.4	.0	.0	.0	.0	5.7	.0	.4	1.5	.0	.0	.0	92.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.4	4.1	.7	.0	.0	.0	.0	8.3	.8	1.8	1.0	.0	.6	.0	88.0
TOT OBS:	726														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
0000	3.5	2.5	.0	.0	.0	.0	.0	6.1	1.0	.5	.0	.0	1.0	.0	91.4
0600	2.7	6.3	.5	.0	.0	.0	.0	9.5	.9	1.4	1.4	.0	.9	.0	86.9
1200	3.8	4.5	2.3	.0	.0	.0	.0	10.5	.0	3.8	.8	.0	.0	.0	85.7
1800	4.3	4.3	.5	.0	.0	.0	.0	9.2	1.0	1.9	1.4	.0	.0	.0	86.5
TOT PCT	3.6	4.5	.7	.0	.0	.0	.0	8.7	.8	1.7	.9	.0	.5	.0	87.8
TOT OBS:	760														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.0	6.7	2.7	1.0	*	.0		11.4	10.0	5.3	9.3	16.1	18.8	20.8	14.3	8.4	5.2	
NE	.5	2.0	1.3	.3	*	.0		4.2	10.8	.0	3.9	6.1	7.3	9.5	3.0	1.6	4.4	
E	.3	2.1	1.6	.6	.2	.0		4.7	13.9	4.0	3.5	5.2	4.3	3.0	6.1	6.5	4.4	
SE	.4	2.0	2.4	.4	*	.0		5.2	11.9	3.0	7.0	6.2	12.4	3.0	3.9	3.2	2.2	
S	.7	6.0	7.6	2.9	1.1	.1		18.4	15.7	14.4	19.8	26.7	23.1	21.2	16.5	10.0	14.8	
SW	1.0	9.7	11.3	4.1	.8	.1		26.9	14.5	41.2	28.4	21.6	16.7	19.7	25.7	28.9	31.6	
W	1.2	9.6	6.4	.9	.3	.0		18.2	11.1	24.5	14.8	8.5	7.3	16.3	22.2	28.0	26.4	
NW	.8	3.7	2.5	.4	.1	.0		9.5	9.7	6.6	12.6	6.3	8.5	4.9	7.4	13.0	10.7	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.4							1.4	.1	1.0	.8	3.5	1.7	1.5	.9	.5	.5	
TOT OBS	89	542	445	132	32	3	1243		12.6	99	243	227	117	66	115	199	189	
TOT PCT	7.2	43.6	35.8	10.6	2.6	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	03	06	12	18
N	4.4	5.0	1.9	.2	.0		11.4	10.0	8.1	17.0	16.7	6.8	
NE	1.4	1.9	.8	.1	.0		4.2	10.8	2.8	6.5	5.4	2.9	
E	1.0	2.1	1.1	.6	.0		4.7	13.9	3.7	4.9	5.0	5.5	
SE	1.5	2.6	.8	.2	*		5.2	11.9	5.8	8.3	3.6	2.7	
S	2.8	7.8	5.8	1.7	.4		18.4	15.7	18.2	23.4	18.2	12.3	
SW	4.2	12.8	8.0	1.6	.3		26.9	14.5	32.1	19.9	23.5	30.2	
W	4.9	10.0	2.7	.6	.1		18.2	11.1	17.6	8.1	20.0	27.2	
NW	3.5	4.9	.9	.2	.0		9.5	9.7	10.8	7.0	6.5	11.8	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.4						1.4	.1	.9	2.9	1.1	.5	
TOT OBS	312	585	272	64	10	1243		12.6	342	344	181	376	
TOT PCT	25.1	47.1	21.9	5.1	.8		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	.9	4.7	42.4	38.9	9.9	2.9	.3	13.0	100.0	342
06009	2.9	6.7	40.4	37.5	9.6	2.3	.6	12.3	100.0	344
12015	1.1	4.4	44.8	31.5	14.4	3.9	.0	13.3	100.0	181
18021	.5	6.6	47.1	33.5	10.4	1.9	.0	12.2	100.0	376
TOT	17	72	542	445	132	32	3	12.6		1243
PCT	1.4	5.8	43.6	35.8	10.6	2.6	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	5.7	2.7	1.8	1.7		3.1
NE	1.4	.8	.5	1.5		4.4
E	1.0	.6	1.0	1.4		4.8
SE	.9	1.4	.6	1.4		4.9
S	8.6	4.0	4.5	1.8		3.4
SW	15.9	5.8	6.0	2.6		3.0
W	12.8	2.7	2.5	.6		2.1
NW	3.8	.9	.7	.5		2.5
VAR	.0	.0	.0	.0		.0
CALM	1.0	.0	.3	.0		2.2
TOT OBS	146	54	53	33	286	3.1
TOT PCT	51.0	18.9	18.5	11.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.0	.3	1.1	.7	.0	.0	.0	.0	9.7	
.0	.0	.7	.3	.9	.0	.0	.0	.0	.0	2.3	
.0	.0	.3	.5	.3	.0	.0	.0	.0	.0	2.5	
.0	.0	.0	.3	.6	.1	.3	.0	.0	.0	2.7	
.0	.0	.3	.3	2.0	.9	.5	.2	.0	.0	14.7	
.3	.0	.1	.7	3.6	.4	1.0	.2	.3	.0	24.0	
.0	.0	.0	.3	1.1	.0	.3	.0	.2	.7	16.0	
.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	3.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
.1	0	4	9	30	6	6	1	1	3	225	286
.3	.0	1.4	3.1	10.5	2.1	2.1	.3	.3	1.0	78.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VISBY (NM)

CEILING (FEET)	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0
OR >6500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
OR >5000	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
OR >3500	3.4	3.4	3.7	3.7	3.7	3.7	3.7	3.7
OR >2000	6.1	6.1	6.4	6.4	6.4	6.4	6.4	6.4
OR >1000	14.2	16.3	16.6	16.9	16.9	16.9	16.9	16.9
OR >600	16.3	19.7	20.0	20.3	20.3	20.3	20.3	20.3
OR >300	16.6	20.3	20.7	21.7	21.7	21.7	21.7	21.7
OR >150	16.6	20.3	20.7	21.7	21.7	21.7	21.7	21.7
OR >0	16.9	20.7	21.0	22.0	22.0	22.0	22.0	22.0
TOTAL	90	61	62	65	65	65	65	65

TOTAL NUMBER OF OBS: 295

PCT FREQ NH <5/8: 78.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
21.4	23.4	12.4	10.8	7.7	7.1	3.1	2.8	9.3	.0	323

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.1	.0	.0	.0	.1	.1	.0	.0	.0	.3	.3
	TOT %	.0	.1	.0	.0	.0	.1	.1	.0	.0	.0	.3	.3
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.4	.4
	TOT %	.3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.4	.4
1<2	PCP	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.4	.4
	NO PCP	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
	TOT %	.0	.4	.1	.0	.0	.1	.0	.0	.0	.0	.7	.7
2<5	PCP	.2	.0	.0	.0	.0	.1	.2	.1	.0	.0	.7	.7
	NO PCP	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.4	.4
	TOT %	.2	.1	.0	.0	.2	.2	.2	.1	.0	.0	1.1	1.1
5<10	PCP	.1	.3	.7	.7	1.8	1.2	1.0	.3	.0	.0	6.1	6.1
	NO PCP	4.8	1.5	1.2	1.5	4.2	6.6	8.3	3.7	.0	.3	32.2	32.2
	TOT %	5.0	1.8	1.9	2.2	6.0	7.9	9.3	4.1	.0	.3	38.3	38.3
10+	PCP	.1	.1	.1	.0	.2	.4	.1	.0	.0	.0	1.1	1.1
	NO PCP	7.2	2.0	1.8	2.9	10.6	17.3	11.1	4.6	.0	.7	58.1	58.1
	TOT %	7.3	2.1	1.9	3.0	10.8	17.6	11.2	4.6	.0	.7	59.2	59.2
TOT OBS													
TOT PCT													
		12.7	4.6	3.9	5.1	17.0	25.9	20.8	9.0	.0	1.0	100.0	776

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.0	.0	.0	.1	.1	.0	.0	.0	.2	.2
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
	22+	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	TOT %	.2	.0	.0	.0	.0	.0	.0	.1	.0	.0	.3	.3
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	11-21	.0	.2	.1	.1	.0	.0	.0	.0	.0	.0	.3	.3
	22+	.0	.1	.3	.0	.0	.1	.0	.0	.0	.0	.6	.6
	TOT %	.1	.3	.4	.1	.0	.1	.0	.0	.0	.0	1.0	1.0
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.0	.0	.0	.1	.1	.1	.1	.0	.0	.6	.6
	11-21	.0	.1	.1	.1	.3	.1	.1	.0	.0	.0	.7	.7
	22+	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.2	.2
	TOT %	.2	.2	.1	.1	.4	.3	.2	.1	.0	.0	1.5	1.5
5<10	0-3	.4	.2	.0	.1	.2	.5	.7	.3	.0	.2	2.8	2.8
	4-10	2.4	.9	.3	.6	2.6	2.8	3.3	2.1	.0	.0	14.9	14.9
	11-21	.9	.5	.7	.7	1.3	2.4	3.3	.9	.0	.0	10.7	10.7
	22+	.6	.1	.7	.4	1.0	1.3	.6	.1	.0	.0	4.9	4.9
	TOT %	4.2	1.6	1.8	1.8	5.2	7.0	8.0	3.4	.0	.2	33.3	33.3
10+	0-3	.5	.3	.2	.2	.3	.5	.7	.5	.0	.8	4.0	4.0
	4-10	5.0	1.4	1.5	1.2	3.3	7.0	7.3	3.6	.0	.0	30.4	30.4
	11-21	1.7	.7	.4	1.6	5.2	9.0	4.0	1.8	.0	.0	24.4	24.4
	22+	.2	.0	.1	.1	1.8	2.2	.4	.0	.0	.0	4.8	4.8
	TOT %	7.5	2.4	2.2	3.2	10.6	18.7	12.4	5.9	.0	.8	63.6	63.6
TOT OBS													
TOT PCT													
		12.3	4.6	4.4	5.1	16.2	26.1	20.6	9.6	.0	1.0	100.0	872

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 289	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	1.0	.0	2.0	2.0	9.9	3.0	2.0	.0	1.0	1.0	21.8	78.2	101
06009	.0	.0	1.1	6.5	7.6	2.2	2.2	.0	.0	1.1	20.7	79.3	92
12015	.0	.0	1.5	1.5	12.3	4.6	1.5	1.5	.0	.0	23.1	76.9	65
18021	.0	.0	.0	1.7	10.3	.0	1.7	.0	.0	1.7	15.5	84.5	58
TOT	1	0	4	10	31	8	6	1	1	3	65	251	316
PCT	.3	.0	1.3	3.2	9.8	2.5	1.9	.3	.3	.9	20.6	79.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.4	.0	.9	1.3	27.0	70.4	230
06009	.0	.4	1.1	.4	38.2	59.9	262
12015	.0	.7	.7	1.3	29.5	67.8	149
18021	.4	.4	1.1	2.6	39.2	56.2	265
TOT	2	3	0	13	310	569	906
PCT	.2	.3	1.0	1.4	34.2	62.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	1.1	3.2	6.5	17.2	76.3	93
06009	.0	1.1	9.1	12.5	78.4	88
12015	.0	1.6	3.3	21.3	75.4	61
18021	.0	.0	1.9	15.1	83.0	53
TOT	1	5	17	48	290	295
PCT	.3	1.7	5.8	16.3	78.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
70/74	.0	.2	.0	.6	.6	.8	.2	.2	13	2.6
65/69	.2	.2	1.0	3.2	6.1	6.1	3.4	1.8	109	22.1
60/64	.0	.4	4.9	8.5	10.9	12.8	6.3	6.7	249	50.4
55/59	.0	.2	1.8	4.3	4.3	5.9	2.8	2.0	105	21.3
50/54	.0	.0	.0	.4	1.2	.0	1.2	.4	17	3.4
TOTAL	1	5	38	85	115	126	69	55	494	100.0
PCT	.2	1.0	7.7	17.2	23.3	25.5	14.0	11.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
.9	.1	.2	.2	.2	.3	.2	.7	.0	.0
5.8	1.0	1.2	1.9	2.8	3.8	3.6	1.7	.0	.2
4.2	4.0	1.4	2.7	11.6	13.4	8.4	3.8	.0	1.0
.9	.0	.4	.0	2.1	10.0	6.9	.9	.0	.0
.1	.0	.0	.0	.2	1.0	2.0	.1	.0	.0
11.8	5.1	3.1	4.8	16.9	28.7	21.2	7.2	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	74	72	69	62	56	53	51	62.3	347
06009	79	75	70	63	58	55	54	63.6	354
12015	73	72	67	61	55	52	51	61.6	184
18021	73	67	66	60	54	52	49	59.8	374
TOT	79	72	68	62	55	52	49	61.8	1259

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	23.4	26.2	27.6	7.0	15.2	70	145
06009	.6	31.8	25.5	19.7	12.7	9.6	67	157
12015	.0	32.6	25.6	26.7	10.5	4.7	86	86
18021	.0	16.5	18.0	25.6	23.3	16.5	76	133
TOT	1	134	124	128	71	63	70	521

JULY

PERIOD: (PRIMARY) 1912-1970
(OVER-ALL) 1855-1970AREA 0006 COFFS HARBOUR
30.35 153.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	NO FOG
7/8	.0	.0	.0	.0	.0	.3	.0	.2	3	.0	.5
6	.0	.0	.0	.0	.0	.3	.0	.0	2	.0	.3
4	.0	.0	.0	.0	.0	.5	.2	.0	4	.0	.6
3	.0	.0	.0	.0	.8	.3	.0	.0	7	.0	1.1
2	.0	.0	.2	.8	1.5	.3	.2	.0	19	.0	2.9
1	.0	.0	.3	.6	.2	.5	.2	.0	11	.0	1.7
0	.0	.0	.2	1.8	3.0	1.2	.0	.0	41	.0	6.2
-1	.0	.0	.5	3.5	2.9	.2	.0	.0	46	.0	6.9
-2	.0	.2	.9	5.1	3.6	.2	.0	.0	66	.2	9.8
-3	.2	.2	.6	3.8	3.9	.2	.0	.0	38	.3	8.4
-4	.0	.2	2.0	7.5	2.1	.0	.0	.0	78	.0	11.7
-5	.2	.3	3.8	7.4	.5	.2	.0	.0	81	.2	12.0
-6	.0	.6	2.3	3.9	.2	.0	.0	.0	46	.2	6.8
-7/-8	.0	1.4	7.4	6.8	.5	.0	.0	.0	106	.0	15.9
-9/-10	.3	2.1	5.0	1.5	.0	.0	.0	.0	59	.0	8.9
-11/-13	.0	2.9	1.2	.2	.0	.0	.0	.0	28	.0	4.2
-14/-16	.2	.5	.2	.3	.0	.0	.0	.0	7	.0	1.1
-17/-19	.0	.5	.0	.0	.0	.0	.0	.0	3	.0	.5
TOTAL	5		161		126		3		665	5	660
PCT	.8	8.6	24.2	43.0	18.9	3.9	.5	.2	100.0	.8	99.2

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.4	.0	.0	.0	.0	1.4	.4	.4	.0	.0	.0	.0	.9
1-2	.4	5.1	.4	.0	.0	.0	7.0	.0	.7	.0	.0	.0	.0	.7
3-4	.0	.7	1.5	.0	.0	.0	2.2	.0	1.0	.6	.0	.0	.0	1.5
5-6	.0	.0	.7	.0	.0	.0	.7	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.4	.4	.4	.0	.0	1.3	.0	.0	.0	.6	.0	.0	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	8.6	3.1	.4	.0	.0	12.6	.4	2.1	1.5	.6	.0	.0	4.6

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.9	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0
1-2	.0	1.1	.0	.0	.0	.0	1.1	.0	1.4	.2	.0	.0	.0	1.7
3-4	.0	1.2	.0	.0	.0	.0	1.2	.0	.6	1.8	.0	.0	.0	2.3
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
7	.0	.0	.0	.3	.0	.0	.3	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.1	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.2	.0	.3	1.2	.0	4.8	.0	2.0	2.9	.0	.1	.0	5.0

PERIOD: (OVER-ALL) 1963-1970

JULY

AREA 0006 COFFS HARBOR
30.35 153.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	.0	.3	.0	.0	.0	.0	.3	.4	1.4	1.0	.0	.0	.0	.4	2.9
1-2	.0	3.3	2.3	.0	.0	.0	6.5	.9	5.0	2.0	.0	.0	.0	7.9	7.6
3-4	.0	.4	3.8	.9	.0	.0	5.1	.0	1.3	6.3	.0	.0	.0	7.6	5.5
5-6	.0	.0	3.5	.8	.0	.0	4.3	.0	.0	9.0	.6	.0	.0	3.7	.9
7	.0	.0	.8	.0	.0	.0	.8	.0	.0	1.4	2.2	.0	.0	.9	1.0
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.4	.9	.0	.0	.6	.6
10-11	.0	.0	.0	.8	.9	.0	1.7	.0	.0	.4	.6	.0	.0	.4	.0
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.6	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	4.1	10.4	3.2	.9	.0	19.5	1.3	7.7	16.2	4.8	.4	.0	30.4	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOT PCT
<1	.9	.8	.3	.0	.0	.0	2.0	.0	.4	.0	.0	.0	.0	.4	1.9
1-2	.0	4.4	.8	.0	.0	.0	5.2	.0	1.0	.9	.0	.0	.0	1.9	.7
3-4	.0	1.8	5.1	.0	.0	.0	6.9	.0	.6	1.3	.0	.0	.0	1.1	.0
5-6	.0	.0	1.2	.3	.0	.0	1.5	.0	.0	.6	.1	.0	.0	.0	.0
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	7.0	7.7	.8	.0	.0	16.4	.0	2.0	2.9	.1	.0	.0	5.0	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	3.9	5.7	1.3	.0	.0	.0	11.0	085
1-2	2.2	23.2	6.6	.0	.0	.0	32.0	
3-4	.0	7.5	20.2	.9	.0	.0	28.5	
5-6	.0	.0	12.3	1.8	.0	.0	14.0	
7	.0	.4	3.5	3.5	.0	.0	7.5	
8-9	.0	.0	.0	1.8	.0	.0	1.8	
10-11	.0	.0	.4	1.3	.9	.0	2.6	
12	.0	.0	.0	.9	.0	.0	.9	
13-16	.0	.0	.0	.0	.9	.0	.9	
17-19	.0	.0	.0	.0	.9	.0	.9	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	228
TOT PCT	6.1	36.8	44.3	10.1	2.6	.0	100.0	

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	7.9	9.4	5.4	.4	.4	.4	.7	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	4
6-7	.0	1.1	6.8	7.2	8.3	4.0	1.8	.4	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	86	6
8-9	.0	.7	4.7	3.2	8.6	4.3	2.2	2.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	7
10-11	.0	.0	.4	1.4	2.5	1.4	.7	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	8
12-13	.0	.0	.4	.7	.4	.4	.0	.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	16
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	4
INDET	.7	.7	1.1	1.8	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	278	6
TOTAL	6	29	63	55	29	14	12	8	4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	
PCT	2.2	10.4	22.7	19.8	20.9	10.4	5.0	4.3	2.9	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0		

AUGUST

PERIOD: (PRIMARY) 1908-1969
(OVER-ALL) 1860-1969AREA 0006 COFFS HARBOUR
30.25 153.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	8.5	.9	1.7	.0	.0	.0	.0	11.1	1.5	3.6	.0	.0	3.4	.0	82.5
NE	16.2	3.7	.0	.0	.0	.0	.0	19.9	1.8	3.3	.0	.0	1.5	.0	73.4
E	9.8	3.9	6.3	.0	.0	.0	.0	20.0	2.0	2.9	.0	.0	2.0	.0	74.1
SE	3.5	19.5	1.5	.0	.0	.0	.0	24.5	1.2	2.4	.0	.0	.3	.0	70.5
S	2.3	10.0	.8	.0	.0	.0	.0	13.2	.7	.7	.0	.0	.3	.0	85.3
SW	2.8	4.5	.7	.0	.0	.0	.0	8.0	.6	.0	2.0	.0	.3	.0	89.2
W	1.4	.0	.5	.0	.0	.0	.0	1.9	.0	1.7	.0	.0	2.9	.0	93.5
NW	1.3	.0	1.9	.0	.0	.0	.0	3.2	.0	1.6	1.3	.0	.6	.0	93.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	.0	.0	.0	.0	83.3
TOT PCT	4.8	5.4	1.3	.0	.0	.0	.0	11.5	.8	1.8	1.2	.0	1.3	.0	84.3
TOT OBS:	837														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.2	6.3	.9	.0	.0	.0	.0	9.4	.9	.4	1.3	.0	2.2	.0	86.2
06009	4.3	3.9	1.6	.0	.0	.0	.0	9.7	1.2	.8	1.9	.0	1.9	.0	84.4
12015	5.8	5.8	.0	.0	.0	.0	.0	11.5	.7	4.3	2.2	.0	.0	.0	84.2
18021	7.1	5.9	2.1	.0	.0	.0	.0	15.1	.8	2.5	.0	.0	.8	.0	81.9
TOT PCT	4.8	5.4	1.3	.0	.0	.0	.0	11.4	.9	1.7	1.3	.0	1.4	.0	84.1
TOT OBS:	858														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.1	6.1	4.8	1.0	.1	.0		13.1	11.0		11.1	9.9	16.0	18.7	16.9	14.6	11.0	10.4
NE	.7	3.9	1.6	.5	.0	.0		6.7	9.8		2.5	4.0	12.1	6.0	15.4	7.6	7.9	1.8
E	1.1	3.2	1.3	.6	.1	.1		6.4	10.7		4.5	7.1	9.5	8.9	1.8	8.7	4.4	3.3
SE	.6	3.7	3.4	1.8	.5	.3		10.2	15.4		3.5	11.2	13.2	16.7	3.5	12.2	7.1	7.8
S	.7	6.4	7.5	2.9	.5	.0		18.0	14.0		18.8	19.2	23.7	21.3	16.7	14.6	13.9	14.1
SW	1.1	8.0	7.5	3.3	.6	.1		20.5	14.0		34.2	23.1	11.5	14.4	19.3	17.0	22.4	26.4
W	1.0	6.3	3.9	1.1	.2	.1		12.6	11.4		17.1	11.0	6.5	5.3	7.0	12.8	17.9	20.1
NW	.6	6.5	3.0	.7	.0	.0		10.9	10.3		8.4	12.8	6.3	7.8	14.0	9.7	13.2	14.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0		.0	1.6	1.3	.6	3.5	2.8	2.1	1.3
TOT OBS	116	608	455	163	28	7	1377		12.3		101	254	235	154	57	144	234	198
TOT PCT	8.4	44.2	33.0	11.8	2.0	.5		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	06	12	18	21
N		3.9	6.5	2.6	.1	.0					13.1	11.0	10.3	17.0	15.8
NE		2.7	3.0	.9	.2	.0					6.7	9.8	3.6	9.7	9.8
E		2.7	2.5	.9	.4	.1					6.4	10.7	6.3	9.3	6.7
SE		2.1	4.5	2.4	.8	.4					10.2	15.4	9.0	14.6	9.7
S		2.8	9.5	4.7	.8	.1					18.0	14.0	19.1	22.8	15.2
SW		4.4	8.4	6.4	1.2	.1					20.5	14.0	26.3	12.7	17.7
W		4.1	6.1	1.7	.5	.2					12.6	11.4	12.7	6.1	11.2
NW		3.2	5.9	1.5	.2	.0					10.9	10.3	11.5	6.9	10.9
VAR		.0	.0	.0	.0	.0					.0	.0	.0	.0	.0
CALM		1.6									1.6	.0	1.1	1.0	3.0
TOT OBS		377	638	291	58	13	1377				12.3		335	389	201
TOT PCT		27.4	46.3	21.1	4.2	.9		100.0					100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
0000	1.1	5.9	45.9	34.1	11.0	2.0	.0	12.1	100.0	355	
0600	1.0	10.0	39.8	34.2	12.9	1.3	.8	12.3	100.0	389	
1215	3.0	5.5	46.3	29.9	11.9	3.0	.5	12.5	100.0	201	
1800	1.9	5.3	45.6	32.6	11.6	2.3	.7	12.4	100.0	432	
TOT	22	94	608	455	163	28	7	12.3		1377	
PCT	1.6	6.8	44.2	33.0	11.8	2.0	.5	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	5.2	2.5	3.8	3.8		4.4
NE	2.7	1.7	3.4	2.4		4.7
E	1.9	.3	1.4	1.8		4.9
SE	1.4	1.4	1.6	.1		4.1
S	7.3	5.0	4.9	1.6		3.6
SW	10.8	4.4	3.6	1.4		2.7
W	11.2	1.2	1.0	.0		1.2
NW	6.2	1.2	2.0	.8		2.5
VAR	.0	.0	.0	.0		.0
CALM	1.2	.0	.8	.0		3.6
TOT OBS	124	46	58	31	259	3.3
TOT PCT	47.9	17.8	22.4	12.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL
149	299	599	999	1999	3499	4999	6499	7999			OBS
.0	.0	.0	2.2	2.2	.4	.3	.2	.7	.0	9.3	
.0	.0	.4	.1	1.5	.4	.1	.2	.0	.4	7.1	
.0	.0	.0	.7	.4	.8	.0	.0	.0	.0	3.6	
.0	.0	.0	.1	.8	.0	.0	.0	.0	.0	3.7	
.0	.0	.0	.9	3.1	.0	.0	.0	.0	.4	14.6	
.0	.0	.0	.3	1.5	1.2	.8	.0	.0	.0	16.5	
.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	12.6	
.0	.0	.0	.4	.6	.8	.0	.4	.1	.0	7.9	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	1.2	
.0	.0	1	12	30	9	3	2	2	2	198	259
.0	.0	.4	4.6	11.6	3.5	1.2	.8	.8	.8	76.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	= OR >10	= OR >5	= OR >2	VSBY (NM)	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >5000	1.9	1.9	2.3	2.3	2.3	2.3	2.3	2.3	2.3
= OR >3500	3.1	3.1	3.4	3.4	3.4	3.4	3.4	3.4	3.4
= OR >2000	6.5	6.5	6.9	6.9	6.9	6.9	6.9	6.9	6.9
= OR >1000	15.3	18.7	19.1	19.1	19.1	19.1	19.1	19.1	19.1
= OR >600	16.8	22.5	23.7	23.7	23.7	23.7	23.7	23.7	23.7
= OR >300	16.8	22.9	24.0	24.0	24.0	24.0	24.0	24.0	24.0
= OR >150	16.8	22.9	24.0	24.0	24.0	24.0	24.0	24.0	24.0
= OR >0	16.8	22.9	24.0	24.0	24.0	24.0	24.0	24.0	24.0
TOTAL	44	60	63	63	63	63	63	63	63

TOTAL NUMBER OF OBS: 262

PCT FREQ NH <5/8: 76.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
16.9	30.5	12.9	10.5	6.2	2.8	5.2	6.5	8.6	.0	325

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
	TOT %	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.2	.1	.2	.1	.1	.0	.0	.0	.0	.7	.7
	TOT %	.0	.2	.1	.2	.1	.1	.0	.0	.0	.0	.7	.7
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.2	.1	.1	.0	.0	.1	.1	.2	.0	.0	.7	.7
	TOT %	.2	.1	.1	.0	.0	.1	.1	.2	.0	.0	.7	.7
2<5	PCP	.2	.2	.0	.2	.1	.2	.0	.1	.0	.0	1.0	1.4
	NO PCP	.0	.0	.0	.1	.0	.2	.0	.0	.0	.0	.4	.4
	TOT %	.2	.2	.0	.3	.1	.5	.0	.1	.0	.0	1.3	1.3
5<10	PCP	1.1	1.2	1.0	2.2	1.9	.9	.1	.1	.0	.0	8.5	8.5
	NO PCP	4.7	2.0	2.2	4.7	6.5	5.8	4.4	3.6	.0	.1	33.9	33.9
	TOT %	5.8	3.2	3.2	6.9	8.4	6.7	4.4	3.7	.0	.1	42.4	42.4
10+	PCP	.2	.2	.2	.1	.4	.5	.2	.1	.0	.0	2.0	2.0
	NO PCP	7.6	4.2	2.5	2.5	9.0	13.4	7.7	5.2	.0	.6	52.7	52.7
	TOT %	7.9	4.5	2.7	2.7	9.4	13.9	7.9	5.3	.0	.6	54.7	54.7
837													
TOT OBS													
TOT PCT		14.0	8.1	6.1	10.1	17.9	21.2	12.4	9.4	.0	.7	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	.1
	4-10	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2	.2
	TOT %	.0	.2	.1	.2	.1	.1	.0	.0	.0	.0	.6	.6
		.0	.2	.1	.2	.1	.1	.0	.0	.0	.0	.6	.6
1<2	0-3	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.2	.1	.0	.0	.0	.1	.1	.1	.0	.0	.4	.4
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.2	.1	.1	.0	.0	.1	.1	.2	.0	.0	.6	.6
		.2	.1	.1	.0	.0	.1	.1	.2	.0	.0	.6	.6
2<5	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	.0	.0	.2	.0	.3	.0	.0	.2	.2
	11-21	.3	.2	.0	.3	.1	.1	.0	.1	.0	.0	.9	.9
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.3	.2	.0	.3	.1	.4	.0	.1	.0	.0	1.2	1.2
		.3	.2	.0	.3	.1	.4	.0	.1	.0	.0	1.2	1.2
5<10	0-3	1.0	.4	.8	.1	.1	.4	.2	.4	.0	.1	3.4	3.4
	4-10	2.0	1.5	1.3	1.4	2.4	2.0	2.0	2.1	.0	.0	14.8	14.8
	11-21	1.8	.5	.4	2.5	3.7	2.2	1.4	.8	.0	.0	13.2	13.2
	22+	.6	.3	.4	2.0	1.4	1.3	.3	.2	.0	.0	6.4	6.4
	TOT %	5.3	2.7	2.9	6.1	7.5	5.9	3.9	3.4	.0	.1	37.8	37.8
		5.3	2.7	2.9	6.1	7.5	5.9	3.9	3.4	.0	.1	37.8	37.8
10+	0-3	.4	.4	.6	.1	.4	.6	.2	.6	.0	.9	4.1	4.1
	4-10	3.8	2.7	1.6	1.9	3.8	5.9	4.3	3.4	.0	.0	27.5	27.5
	11-21	3.2	1.1	.4	.5	5.0	6.7	2.9	2.0	.0	.0	21.7	21.7
	22+	.7	.3	.1	.1	1.4	2.6	.9	.2	.0	.0	6.3	6.3
	TOT %	8.1	4.5	2.7	2.6	10.5	15.8	8.8	5.8	.0	.9	59.6	59.6
		8.1	4.5	2.7	2.6	10.5	15.8	8.8	5.8	.0	.9	59.6	59.6
968													
TOT OBS													
TOT PCT		13.8	7.7	5.8	9.1	18.2	22.2	12.7	9.5	.0	1.0	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	4.6	7.3	1.6	.9	.0	.0	.0	14.7	85.3	109
06009	.0	.0	.0	4.4	11.0	4.4	2.2	1.1	1.1	1.1	25.3	74.7	91
12015	.0	.0	.0	1.9	17.0	3.8	.0	.0	1.9	1.9	26.4	73.6	53
18021	.0	.0	1.7	3.3	8.3	1.7	.0	1.7	.0	.0	16.7	83.3	60
TOT	0	0	1	12	32	9	3	2	2	2	63	230	313
PCT	.0	.0	.3	3.8	10.2	2.9	1.0	.6	.6	.6	20.1	79.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.8	1.6	.8	29.8	67.1	252
06009	.0	1.0	.3	1.4	42.6	54.5	290
12015	.7	.7	.0	.0	38.4	60.3	151
18021	.0	.0	.7	2.0	41.2	56.1	296
TOT	1	6	7	12	379	584	989
PCT	.1	.6	.7	1.2	38.3	59.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	5.3	11.6	83.2	95
06009	.0	.0	5.1	24.4	70.5	78
12015	.0	.0	2.2	28.9	68.9	45
18021	.0	2.3	9.1	13.6	77.3	44
TOT	0	1	14	49	199	262
PCT	.0	.4	5.3	18.7	76.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.6	.4	1.7	.8	.4	.2	20	4.2
65/69	.0	.2	2.1	2.7	4.8	7.5	4.0	1.9	111	23.1
60/64	.0	.2	4.2	7.7	12.5	12.9	8.8	4.4	243	50.6
55/59	.0	.0	1.3	2.5	4.4	4.6	4.6	1.9	92	19.2
50/54	.0	.0	.0	.4	.8	.4	.4	.8	14	2.9
TOTAL	0	2	39	66	116	126	87	44	480	100.0
PCT	.0	.4	8.1	13.8	24.2	26.3	18.1	9.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
70/74	1.4	.6	.2	.5	.5	.3	.1	.6	.0	.0
65/69	6.7	4.1	1.2	1.4	2.8	1.4	2.0	3.6	.0	.0
60/64	5.4	3.2	3.1	2.6	10.7	13.2	7.2	4.5	.0	.6
55/59	1.0	.9	.4	.2	2.9	6.1	4.7	2.7	.0	.2
50/54	.2	.0	.0	.2	.1	1.3	1.0	.1	.0	.0
TOTAL	14.7	8.8	4.9	4.8	17.0	22.3	15.1	11.5	.0	.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	74	73	70	63	56	53	49	62.6	344
06009	79	73	70	63	57	51	47	63.4	387
12015	70	69	67	62	56	51	51	61.9	205
18021	70	69	67	61	54	52	50	60.6	431
TOT	79	72	69	62	56	52	47	62.1	1367

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	19.2	25.8	27.8	17.9	9.3	71	151		
06009	.0	28.6	27.9	25.9	13.6	4.1	57	147		
12015	.0	25.0	21.1	31.6	14.5	7.9	70	76		
18021	.0	14.9	19.8	23.1	27.3	14.9	75	121		
TOT	0	108	120	132	91	44	70	495		

PERIOD: (PRIMARY) 1908-1969
(OVER-ALL) 1860-1969

AUGUST

AREA 0006 COFFS HARBOUR
30.25 153.3E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	4° 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
9/10	.0	.0	.0	.0	.1	.0	.1	.0	2	.0	.3
7/8	.0	.0	.0	.0	.0	.3	.0	.1	3	.0	.4
6	.0	.0	.0	.1	.1	.0	.0	.0	2	.0	.3
5	.0	.0	.0	.1	.0	.7	.0	.0	6	.0	.8
4	.0	.0	.1	.3	.4	.8	.0	.0	12	.0	1.7
3	.0	.0	.0	.1	.8	.6	.3	.0	13	.0	1.8
2	.0	.0	.0	.6	1.4	.7	.0	.0	19	.0	2.6
1	.0	.0	.4	1.1	1.7	1.5	.0	.0	34	.4	4.3
0	.0	.1	.8	1.8	3.5	.4	.0	.0	48	.0	6.6
-1	.0	.4	.6	2.2	5.0	.1	.0	.0	60	.1	8.1
-2	.0	.4	.7	6.2	2.6	.0	.0	.0	72	.0	9.9
-3	.0	.3	1.8	5.0	2.6	.0	.0	.0	70	.1	9.5
-4	.0	.3	2.1	6.4	2.8	.0	.0	.0	83	.3	11.2
-5	.0	.3	4.7	7.6	1.2	.1	.0	.0	101	.1	13.8
-6	.0	.4	3.3	4.6	.4	.0	.0	.0	63	.3	8.4
-7/-8	.0	1.1	4.7	3.5	.1	.0	.0	.0	68	.0	9.4
-9/-10	.0	1.5	3.3	1.5	.0	.0	.0	.0	46	.0	6.4
-11/-13	.6	1.0	.8	.1	.0	.0	.0	.0	18	.0	2.5
-14/-16	.3	.0	.0	.1	.0	.0	.0	.0	3	.0	.4
TOTAL	6	42	169	300	169	38	1	3	724	10	714
PCT	.8	5.8	23.3	41.4	22.8	5.2	.4	.1	100.0	1.4	98.6

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	2.0	.0	.0	.0	.0	2.5	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	1.7	1.3	.0	.0	.0	3.0	.5	2.6	.5	.0	.0	.0	3.6
3-4	.0	1.4	1.8	.0	.0	.0	3.2	.0	1.4	2.2	.0	.0	.0	3.6
5-6	.0	1.3	2.9	.4	.0	.0	4.5	.0	.1	1.9	1.1	.0	.0	3.1
7	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	6.5	6.5	.7	.5	.0	14.6	.5	5.5	4.5	1.2	.0	.0	11.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.4	.4	.0	.0	.0	.0	1.8	.5	1.1	.0	.0	.0	.0	1.6
1-2	.0	2.3	.0	.0	.0	.0	2.3	.0	2.0	.6	.0	.0	.0	2.6
3-4	.0	.5	.4	.0	.0	.0	.8	.0	.0	.2	.0	.0	.0	.2
5-6	.0	.0	.3	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1
7	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.4	3.1	1.3	.0	.0	.0	5.9	.5	3.1	1.0	.5	.0	.0	5.0

PERIOD: (OVER-ALL) 1963-1969

AUGUST

AREA 0006 COFFS HARBOUR
30.25 153.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.8	1.2	.0	.0	.0	.0	2.0	.6	.7	.0	.0	.0	.0	1.3	
1-2	.0	3.1	1.3	.0	.0	.0	4.4	.0	4.8	1.0	.0	.0	.0	5.7	
3-6	.0	.5	4.2	.4	.0	.0	5.0	.0	2.5	3.0	.6	.0	.0	6.1	
5-6	.0	.0	3.7	1.6	.0	.0	5.3	.0	.1	2.4	1.9	.0	.0	4.4	
7	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	1.9	.0	.0	1.9	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	4.8	9.2	2.4	.0	.0	17.2	.6	8.1	6.3	4.9	.0	.0	20.0	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	1.0	2.2	.0	.0	.0	.0	3.1	.5	.2	.0	.0	.0	.0	.7	
1-2	.0	3.9	1.2	.0	.0	.0	5.1	.0	3.5	1.3	.0	.0	.0	4.8	
3-6	.0	1.8	1.7	.0	.0	.0	3.5	.0	1.9	.5	.0	.0	.0	2.4	
5-6	.0	.8	1.0	.4	.0	.0	2.2	.0	.5	1.0	.0	.0	.0	1.4	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	1.0	8.7	3.8	.4	.0	.0	13.9	.5	6.1	2.8	.0	.0	.0	9.3	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	8.4	9.3	.0	.0	.0	.0	17.8	
1-2	.5	24.3	7.0	.0	.0	.0	31.8	
3-6	.0	9.8	13.6	.9	.0	.0	24.3	
5-6	.0	2.8	13.1	5.1	.0	.0	21.0	
7	.0	.0	.5	2.8	.0	.0	3.3	
8-9	.0	.0	.5	.5	.0	.0	.9	
10-11	.0	.0	.0	.5	.0	.0	.5	
12	.0	.0	.0	.0	.5	.0	.5	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.9	46.3	34.6	9.8	.5	.0	100.0	214

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	3.2	7.5	11.1	6.7	2.8	.4	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	82	3
6-7	.0	.4	8.7	7.5	7.9	2.4	1.6	.4	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	76	6
8-9	.0	.0	2.0	3.5	8.3	4.3	.8	.4	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	57	7
10-11	.0	.4	1.2	1.6	2.4	1.2	.8	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	21	7
12-13	.0	.0	.0	.4	.0	.0	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	12
>13	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	8
INDET	2.8	.4	.4	.4	.0	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	3
TOTAL	15	22	59	36	34	22	8	7	9	1	0	0	0	0	0	0	0	0	0	293	5
PCT	5.9	8.7	23.3	22.1	21.3	8.7	3.2	2.8	3.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1910-1970
(OVER-ALL) 1872-1970AREA 0006 COFFS HARBOUR
30.35 153.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.8	6.8	1.2	.0	.0	.0	.0	11.8	.0	2.7	3.0	.0	4.4	.0	78.7
NE	1.6	2.7	2.2	.0	.0	.0	.0	6.5	2.2	1.1	7.6	.0	4.3	.0	78.3
E	5.6	7.8	1.1	.0	.0	.0	.0	14.4	.0	2.2	3.3	.0	2.2	.0	80.0
SE	13.6	7.3	1.6	.0	.0	.0	.0	19.6	.0	1.6	.0	.0	1.6	.0	78.8
S	3.9	6.8	3.9	.0	.0	.0	.0	14.7	1.4	.0	.8	.0	.8	.0	82.4
SW	3.4	4.0	1.5	.0	.0	.0	.0	8.9	.9	4.5	1.9	.0	4.0	.0	79.8
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	3.9	.0	4.3	.0	85.3
NW	.7	1.5	.7	.0	.0	.0	.0	2.9	1.5	2.2	3.1	.0	9.3	.0	78.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.3	.0	.0	.0	87.5
TOT PCT	3.5	4.8	1.7	.0	.0	.0	.0	10.0	.8	2.5	3.1	.0	3.8	.0	80.2
TOT OBS:	768														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.5	3.0	1.5	.0	.0	.0	.0	8.0	1.5	.0	3.5	.0	6.5	.0	80.4
06009	1.8	8.3	2.8	.0	.0	.0	.0	12.8	.5	.9	3.7	.0	4.1	.0	78.0
12015	5.6	5.6	2.1	.0	.0	.0	.0	13.2	.7	8.3	2.1	.0	1.4	.0	76.4
18021	3.8	3.8	.4	.0	.0	.0	.0	8.1	.4	2.6	4.7	.0	2.1	.0	82.5
TOT PCT	3.5	5.2	1.6	.0	.0	.0	.0	10.3	.8	2.5	3.6	.0	3.6	.0	79.6
TOT OBS:	795														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FRQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.2	7.6	10.3	1.4	.7	.0		21.2	13.0		20.7	20.7	18.7	25.8	25.3	23.0	22.7	17.5
NE	.7	6.4	4.8	.5	.1	.0		12.4	10.8		6.4	10.1	25.4	11.3	12.0	9.7	10.4	7.0
E	.6	3.4	1.2	.5	.0	.0		5.8	10.1		4.5	4.8	9.9	11.1	5.2	3.6	3.4	2.8
SE	.4	3.8	3.5	.8	.5	.0		9.0	13.5		6.6	8.3	15.5	14.9	3.9	9.7	5.4	4.1
S	.7	5.9	7.0	2.8	.3	.0		16.6	14.2		15.3	21.7	16.4	18.3	20.1	18.1	9.8	14.8
SW	.5	6.0	6.1	2.0	.4	.0		19.1	14.1		23.9	12.8	8.7	5.3	15.3	17.3	21.2	20.1
W	.7	4.6	2.3	.3	.0	.0		7.8	9.7		9.3	7.1	1.1	1.9	6.2	9.7	11.8	16.2
NW	.8	6.1	2.8	.9	.0	.0		10.6	10.5		11.4	11.9	3.9	10.7	12.0	8.9	14.7	14.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0		1.8	2.7	.4	.8	.0	.0	1.5	3.2
TOT OBS	91	367	491	119	26	0	1294		12.3		110	226	841	131	77	124	198	187
TOT PCT	7.0	43.8	37.9	9.2	2.0	.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	4.5	11.0	4.5	1.0	.2			21.2	13.0	20.7	21.2	23.9	20.2
NE	3.3	7.1	1.6	.3	.0			12.4	10.8	8.9	20.4	10.6	8.7
E	1.8	3.2	.4	.4	.0			5.8	10.1	4.7	10.3	4.2	3.1
SE	1.9	5.0	.9	1.0	.2			9.0	13.5	7.7	15.3	7.5	4.8
S	2.6	8.2	4.4	1.3	*			16.6	14.2	19.6	17.1	18.9	12.3
SW	2.1	7.9	3.7	1.4	*			15.1	14.1	16.4	7.5	16.5	20.6
W	2.5	4.2	1.0	.1	.0			7.8	9.7	7.8	1.4	8.3	13.8
NW	3.7	4.8	1.9	.3	.0			10.6	10.5	11.8	6.3	10.1	14.2
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0	2.4	.5	.0	2.3
TOT OBS	309	667	239	74	5	1294			12.3	136	372	201	385
TOT PCT	23.9	51.5	18.5	5.7	.4			100.0		100.0	100.0	100.0	100.0

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PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND			SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
00603	2.4	7.7	47.9	33.6	6.8	1.5	.0	11.2	100.0	336	
06069	.5	4.6	41.1	41.1	9.1	3.5	.0	13.1	100.0	372	
12615	.0	4.5	41.3	38.8	13.9	1.5	.0	13.2	100.0	201	
19621	2.3	5.2	46.2	38.2	8.8	1.3	.0	11.9	100.0	385	
TOT	19	72	567	491	119	26	.0	12.3		1294	
PCT	1.5	5.6	43.8	37.9	9.2	2.0	.0		100.0		

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	15.7	3.4	3.3	1.6		2.1
NE	6.9	2.3	3.9	1.9		3.2
E	1.1	.8	3.7	.3		4.8
SE	3.5	1.0	1.8	.4		3.7
S	6.1	3.7	4.0	1.5		3.6
SW	8.6	3.7	4.8	1.0		3.2
W	4.0	1.1	.9	.0		1.9
NW	6.1	.7	1.0	.6		2.1
VAR	.0	.0	.0	.0		.0
CALM	.6	.0	.3	.0		3.0
TOT OBS	166	53	75	21	315	2.9
TOT PCT	52.7	16.8	23.8	6.7	100.0	

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT,NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH ANY	<5/8 MGT	TOTAL DBS
.0	.0	.0	.8	2.7	.6	.2	.0	.0	.0	19.8		
.0	.0	.0	1.0	.6	.6	.4	.0	.0	.0	11.7		
.0	.0	.0	.6	.9	.6	.3	.0	.0	.0	3.4		
.0	.0	.0	.4	.4	.4	.0	.0	.0	.0	5.6		
.0	.0	.0	1.4	1.4	.9	.0	.0	.0	.3	11.3		
.0	.0	.0	1.3	2.3	.0	.0	.3	.0	.0	14.0		
.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	5.8		
.0	.0	.0	.5	.5	.1	.0	.0	.0	.0	7.5		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.6		
.0	.0	.0	.19	.29	10.4	1	0	1	251		315	
.0	.0	.0	6.0	9.2	3.2	1.3	.3	.0	.3	79.7	100.0	

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	≥ DR ≥10	≥ DR ≥5	≥ DR ≥2	≥ DR ≥1	≥ DR ≥1/2	≥ DR ≥1/4	≥ DR ≥50YD	≥ DR ≥0
≥ DR ≥6500	.6	.6	.6	.6	.6	.6	.6	.6
≥ DR ≥9000	.9	.9	.9	.9	.9	.9	.9	.9
≥ DR ≥3500	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
≥ DR ≥2000	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
≥ DR ≥1000	13.7	14.9	15.2	15.2	15.2	15.2	15.2	15.2
≥ DR ≥600	17.7	20.2	21.1	21.1	21.1	21.1	21.1	21.1
≥ DR ≥300	17.7	20.2	21.1	21.1	21.1	21.1	21.1	21.1
≥ DR ≥150	17.7	20.2	21.1	21.1	21.1	21.1	21.1	21.1
≥ DR ≥ 0	17.7	20.2	21.1	21.1	21.1	21.1	21.1	21.1
TOTAL	57	63	68	68	68	68	68	68

PCT FREQ NH 45/01 78.9

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
23.9	21.3	13.9	9.9	8.8	5.7	6.0	6.3	4.3	.0	352

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.3	.0	.0	.0	.0	.1	.0	.0	.1	.3	
	TOT %	.0	.3	.0	.0	.1	.0	.1	.0	.0	.1	.7	
1/2<1	PCP	.8	.1	.0	.1	.1	.1	.0	.1	.0	.0	1.3	
	NO PCP	.5	.7	.2	.0	.1	.2	.2	.1	.0	.0	2.0	
	TOT %	1.2	.8	.2	.1	.2	.3	.2	.3	.0	.0	3.3	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.0	.0	.0	.1	.2	.2	.3	.0	.0	1.0	
	TOT %	.1	.0	.0	.0	.1	.2	.2	.3	.0	.0	1.0	
2<5	PCP	.1	.1	.1	.1	.2	.2	.0	.0	.0	.0	.7	
	NO PCP	.1	.1	.1	.0	.0	.4	.0	.1	.0	.0	.8	
	TOT %	.3	.1	.1	.1	.2	.6	.0	.1	.0	.0	1.4	
5<10	PCP	1.3	.5	.7	1.2	1.7	.8	.0	.0	.0	.0	6.1	
	NO PCP	5.8	3.0	1.4	1.8	4.9	4.4	2.5	2.9	.0	.5	27.2	
	TOT %	7.1	3.5	2.1	3.0	6.6	5.3	2.5	2.9	.0	.5	33.3	
10+	PCP	.4	.1	.1	.3	.4	.4	.0	.1	.0	.0	1.8	
	NO PCP	13.0	7.2	3.3	4.6	9.0	10.5	5.3	5.1	.0	.4	58.5	
	TOT %	13.3	7.4	3.5	4.9	9.4	10.9	5.3	5.2	.0	.4	60.3	
TOT OBS		22.0	12.0	5.9	8.0	16.6	17.3	8.3	9.0	.0	1.0	100.0	768
TOT PCT													

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.2	
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.0	.0	.1	.0	.1	.0	.0	.1	.6	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.2	.2	.0	.1	.1	.2	.0	.0	.0	.9	
	11-21	.2	.2	.0	.0	.1	.1	.0	.0	.0	.0	.6	
	22+	.6	.3	.0	.1	.1	.1	.0	.2	.0	.0	1.3	
	TOT %	1.0	.7	.2	.1	.2	.3	.2	.2	.0	.0	2.8	
1<2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	4-10	.1	.0	.0	.0	.0	.1	.1	.3	.0	.0	.4	
	11-21	.0	.0	.0	.1	.1	.1	.1	.1	.0	.0	.6	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.0	.0	.1	.1	.3	.2	.4	.0	.0	1.1	
2<5	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.0	.0	.0	.2	.0	.1	.0	.0	.6	
	11-21	.2	.0	.0	.1	.1	.1	.0	.0	.0	.0	.4	
	22+	.0	.1	.1	.0	.1	.1	.0	.0	.0	.0	.4	
	TOT %	.3	.2	.1	.2	.1	.5	.0	.1	.0	.0	1.5	
5<10	0-3	.7	.3	.1	.1	.3	.2	.3	.2	.0	.4	2.5	
	4-10	1.7	1.8	1.3	1.2	2.8	2.0	.9	1.4	.0	.0	13.0	
	11-21	3.1	1.1	.6	1.4	2.6	2.0	1.0	.8	.0	.0	12.3	
	22+	.9	.1	.0	.2	.6	.9	.0	.2	.0	.0	3.0	
	TOT %	6.3	3.3	1.9	2.9	6.2	5.1	2.3	2.6	.0	.4	31.0	
10+	0-3	.4	.2	.2	.1	.2	.2	.3	.2	.0	.6	2.5	
	4-10	5.0	4.7	2.5	3.1	2.9	4.4	3.2	3.6	.0	.0	29.4	
	11-21	7.7	3.4	.8	1.9	5.1	4.9	1.3	1.2	.0	.0	26.5	
	22+	.6	.1	.0	.1	1.8	1.6	.2	.2	.0	.0	4.6	
	TOT %	13.8	8.4	3.5	5.2	10.0	11.1	5.2	5.3	.0	.6	63.1	
TOT OBS		21.6	12.8	5.7	8.4	16.8	17.2	7.9	8.6	.0	1.1	100.0	907
TOT PCT													

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	8.5	7.5	4.7	.9	.0	.0	.0	21.7	78.3	106
06009	.0	.0	.0	.0	11.7	3.2	1.1	1.1	.0	1.1	18.1	81.9	94
12015	.0	.0	.0	12.5	8.3	2.8	1.4	.0	.0	1.4	26.4	73.6	72
18021	.0	.0	.0	1.4	8.6	1.4	1.4	.0	.0	.0	12.9	87.1	70
TOT	0	0	0	19	31	11	4	1	0	2	68	274	342
PCT	.0	.0	.0	5.6	9.1	3.2	1.2	.3	.0	.6	19.9	80.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.9	3.5	1.3	2.2	24.8	67.4	230
06009	.4	4.2	1.5	.4	32.4	61.0	259
12015	.0	1.3	.6	1.3	29.5	67.3	156
18021	.7	3.5	.7	2.1	36.7	56.4	289
TOT	5	31	10	14	293	581	934
PCT	.5	3.3	1.1	1.5	31.4	62.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	11.1	14.1	74.7	99
06009	.0	.0	1.1	18.0	80.9	89
12015	.0	.0	12.9	14.3	72.9	70
18021	.0	.0	4.7	12.5	82.8	64
TOT	0	0	24	48	250	322
PCT	.0	.0	7.5	14.9	77.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
75/79	.0	.0	.0	.4	.4	.8	.0	.0	8	1.6
70/74	.0	.2	1.4	1.2	2.7	3.9	.6	.6	68	14.0
65/69	.0	.2	1.2	4.5	11.1	11.3	11.5	4.5	216	44.4
60/64	.0	.6	1.6	3.1	8.6	11.7	5.7	1.8	162	33.3
55/59	.0	.0	.8	1.0	1.2	.8	1.6	.6	30	6.2
50/54	.0	.0	.0	.2	.2	.0	.0	.0	2	.4
TOTAL	0	5	25	51	119	139	111	37	487	100.0
PCT	.0	1.0	5.1	10.5	24.4	28.5	22.8	7.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
75/79	.6	.1	.0	.0	.2	.0	.2	.5	.0	.0
70/74	4.9	2.4	.6	.6	.6	1.1	.6	3.0	.0	.2
65/69	10.1	7.9	3.4	3.7	6.0	6.5	2.2	4.3	.0	.2
60/64	5.4	1.3	2.1	2.7	7.0	7.4	5.1	1.3	.0	1.0
55/59	.4	.0	.0	.1	1.5	3.6	.6	.1	.0	.0
50/54	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0
TOTAL	21.4	11.9	6.1	7.1	15.3	19.0	8.7	9.1	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	76	75	73	66	59	57	57	66.1	331
06009	80	76	73	66	59	56	55	66.1	376
12015	75	73	70	64	58	55	54	64.3	203
18021	80	73	69	64	57	55	54	64.4	386
TOT	80	75	72	65	58	55	54	65.0	1296

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-64	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	16.3	24.8	32.6	19.1	7.1	71	141
06009	.0	22.8	29.4	25.7	16.2	5.9	69	136
12015	.0	13.2	22.0	33.0	17.6	14.3	74	91
18021	.0	13.5	20.3	23.3	36.1	6.8	74	133
TOT	0	84	122	142	113	40	72	501

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.3	.1	.0	3	.0	.4
7/8	.0	.0	.1	.0	.4	.6	.0	8	.0	1.2
6	.0	.0	.0	.0	.3	.6	.0	6	.0	.9
5	.0	.0	.1	.3	.9	.4	.0	12	.1	1.6
4	.0	.1	.4	.7	1.5	.7	.0	24	.0	3.5
3	.0	.0	.3	1.0	1.6	.9	.1	27	.3	3.6
2	.0	.0	.9	3.2	2.9	.7	.0	53	1.2	6.6
1	.0	.3	.3	3.8	3.8	.4	.0	59	1.0	7.6
0	.0	.3	2.0	5.8	2.5	.0	.0	73	.3	10.3
-1	.0	.4	3.4	8.3	1.2	.0	.0	91	.3	13.0
-2	.0	.4	5.8	5.2	.3	.0	.0	81	.0	11.8
-3	.1	.3	3.5	4.1	.6	.1	.0	60	.3	8.5
-4	.1	.6	4.8	1.6	.4	.0	.0	52	.1	7.4
-5	.1	1.5	3.4	.7	.0	.0	.0	39	.1	5.5
-6	.1	2.2	2.2	1.3	.1	.0	.0	41	.0	6.0
-7/-8	.4	2.0	2.0	.4	.0	.0	.0	34	.0	5.0
-9/-10	.3	.7	1.3	.0	.0	.0	.0	16	.0	2.3
-11/-13	.1	.9	.0	.0	.0	.0	.0	7	.0	1.0
TOTAL	10		210		115		1	686	26	660
PCT	1.5	9.8	30.6	36.6	16.8	4.7	.1	100.0	3.8	96.2

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.8	.0	.0	.0	2.2	.1	.4	.8	.0	.0	.0	1.3
1-2	.0	3.7	3.9	.0	.0	.0	7.6	.0	4.4	1.5	.0	.0	.0	5.8
3-4	.0	2.4	6.0	.0	.0	.0	8.4	.0	1.6	3.3	.0	.0	.0	4.9
5-6	.0	.6	3.2	.0	.0	.0	3.8	.0	.1	1.8	.0	.0	.0	1.9
7	.0	.0	.7	.4	.0	.0	1.1	.0	.0	.5	.0	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	8.1	14.5	.7	.0	.0	23.4	.1	6.5	7.8	.5	.0	.0	14.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	1.6	.0	.0	.0	.0	2.2	.0	.8	.0	.0	.0	.0	.8
1-2	.0	1.6	.0	.0	.0	.0	1.6	.0	1.8	.4	.0	.0	.0	2.2
3-4	.0	.4	.4	.0	.0	.0	.8	.0	.8	1.7	.1	.0	.0	2.6
5-6	.0	.4	.8	.0	.0	.0	1.2	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.0	1.6	.0	.0	.0	6.2	.0	3.5	2.9	.1	.0	.0	6.5

PERIOD: (OVER-ALL) 1963-1970

SEPTEMBER

AREA 0005 COFFS HARBOUR
30.35 153.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	.6	.0	.0	.0	.0	.6
1-2	.0	1.5	.4	.0	.0	.0	1.8	.4	3.7	1.2	.0	.0	.0	5.2
3-4	.4	1.1	3.5	.3	.0	.0	5.2	.0	2.0	3.3	.0	.0	.0	5.3
5-6	.0	1.1	2.2	1.2	.0	.0	4.5	.0	.9	2.0	.8	.0	.0	3.7
7	.0	.0	.0	.8	.0	.0	.8	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.4	.4	.0	.0	.8	.0	.4	1.6	.4	.0	.0	2.3
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	1.2	.8	.0	.0	1.9
12	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.4	.0	.4
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.9	6.5	3.4	.0	.0	14.1	.4	7.6	9.6	1.9	.4	.0	19.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.3	.0	.0	.0	.0	.3	.4	.9	.0	.0	.0	.0	1.3	
1-2	.0	2.1	.4	.0	.0	.0	2.5	.0	3.7	.1	.0	.0	.0	3.8	
3-4	.0	.4	.0	.0	.0	.0	.4	.0	.6	1.6	.0	.0	.0	2.1	
5-6	.0	.7	.4	.0	.0	.0	1.1	.0	.1	1.6	.0	.0	.0	1.6	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.5	1.1	.0	.0	.0	4.6	.4	5.2	3.7	.4	.0	.0	9.7	99.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.1	6.1	1.5	.0	.0	.0	10.7	
1-2	.4	22.1	7.6	.0	.0	.0	30.2	
3-4	.4	9.2	19.5	.4	.0	.0	29.4	
5-6	.0	4.2	11.8	1.9	.0	.0	17.9	
7	.0	.0	2.7	1.5	.0	.0	4.2	
8-9	.0	.4	2.3	1.1	.0	.0	3.8	
10-11	.0	.0	1.5	1.1	.0	.0	2.7	
12	.0	.0	.0	.8	.4	.0	1.1	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.8	42.0	46.9	6.9	.4	.0	100.0	262

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	10.1	16.7	7.5	2.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	119	3
6-7	.0	2.0	7.5	11.4	6.5	2.3	.7	.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	5
8-9	.0	.3	7.0	4.2	3.3	2.9	2.9	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	50	7
10-11	.0	.0	.0	1.6	.3	1.0	.7	1.3	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	17	9
12-13	.0	.0	.7	.3	.3	.0	.0	.0	.3	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	8	11
>13	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	7
INDET	.3	.0	1.6	1.6	.7	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	5
TOTAL	6	38	87	82	42	21	14	7	4	3	2	0	0	0	0	0	0	0	0	306	5
PCT	2.0	12.4	28.4	26.8	13.7	6.9	4.6	2.3	1.3	1.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1870-1971AREA 0006 COFFS HARBOUR
30.35 153.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST		
N	1.9	2.5	.6	.0	.0	.0	.0	5.0	.9	5.3	2.8	.0	6.8	.0	80.4	
NE	.4	1.3	.9	.0	.0	.0	.0	2.7	.9	2.9	.4	.0	4.2	.9	88.4	
E	1.9	1.4	1.9	.0	.0	.0	.0	5.3	4.3	3.4	5.8	.0	1.9	.0	79.3	
SE	2.8	7.4	.0	.0	.0	.0	.0	10.2	1.1	.4	.7	.0	1.8	.0	85.9	
S	7.9	7.9	1.5	.0	.0	.0	.0	17.2	.5	5.5	2.2	.0	4.0	.0	72.7	
SW	6.4	7.1	3.0	.0	.0	.0	.0	16.5	.4	1.9	2.2	.0	4.9	.0	74.2	
W	.0	5.6	.0	.0	.0	.0	.0	5.6	.0	4.0	3.4	.0	11.3	.0	75.7	
NW	3.5	1.2	.0	.0	.0	.0	.0	4.7	1.2	4.1	10.5	.0	5.8	.0	75.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0	90.0	
TOT PCT	3.3	4.3	1.0	.0	.0	.0	.0	8.6	1.0	3.7	2.7	.0	5.0	.1	79.6	
TOT OBS:	695															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FDG WD PCPN	FDG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST		
00003	4.7	3.7	1.0	.0	.0	.0	.0	9.4	1.6	1.0	3.1	.0	6.8	.0	79.1	
06009	4.3	2.8	.9	.0	.0	.0	.0	8.1	.0	1.9	3.3	.0	6.2	.5	81.5	
12015	2.3	7.0	2.3	.0	.0	.0	.0	11.6	.8	11.6	2.3	.0	.8	.0	73.6	
18021	1.1	5.9	.0	.0	.0	.0	.0	7.0	1.6	3.2	2.2	.0	5.9	.0	80.1	
TOT PCT	3.2	4.6	1.0	.0	.0	.0	.0	8.8	1.0	3.8	2.8	.0	5.3	.1	79.1	
TOT OBS:	717															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.5	6.9	10.7	3.3	*	.0		22.4	13.5		24.3	25.4	19.0	21.8	29.6	22.1	22.2	18.6
NE	1.1	7.8	5.8	1.1	.0	.0		15.8	11.1		14.1	15.3	25.5	22.5	14.6	10.3	11.7	7.9
E	.4	9.1	1.6	.3	*	.0		7.5	9.4		3.5	6.6	10.8	12.0	16.8	8.4	5.3	4.1
SE	.7	5.7	2.8	.6	*	.0		9.8	9.9		7.2	6.6	14.8	14.6	12.1	9.3	9.3	5.9
S	.7	5.4	8.3	2.7	.6	.0		17.7	14.9		19.6	21.7	18.7	19.4	11.4	17.4	13.3	15.9
SW	.6	4.4	4.8	1.3	.4	.0		11.4	13.2		11.6	14.2	5.8	4.2	9.3	12.6	11.4	20.5
W	.9	3.4	1.6	.6	.2	.1		6.7	10.9		6.4	5.1	.5	1.4	1.4	4.7	15.0	16.0
NW	.3	4.5	1.4	.3	.2	.1		6.8	10.8		9.4	5.5	3.5	2.3	1.8	9.5	10.7	11.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0		4.0	1.3	1.4	1.9	2.9	5.3	1.1	.0
TOT OBS	92	490	419	113	17	2	1133		12.1		101	226	210	108	70	95	178	145
TOT PCT	8.1	43.2	37.0	10.0	1.5	.2		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	4.3	9.8	7.4	.8	*		22.4	13.5	25.1	20.0	25.3	20.6
NE	4.1	8.1	3.6	.8	.0		15.8	11.1	15.1	24.4	12.3	10.0
E	3.0	3.6	.8	.1	.0		7.5	9.4	4.3	11.2	12.0	4.8
SE	3.4	5.1	1.2	.2	.0		9.8	9.9	6.8	14.7	10.6	7.7
S	3.2	7.3	5.4	1.7	.2		17.7	14.9	21.0	18.9	14.8	14.5
SW	2.4	5.7	2.6	.6	.1		11.4	13.2	13.4	5.3	11.2	15.5
W	2.4	3.4	.6	.3	.1		6.7	10.9	5.5	.8	3.3	15.5
NW	2.1	3.8	.6	.2	.1		6.8	10.8	6.7	3.1	6.2	10.8
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.9						1.9	.0	2.1	1.6	4.2	.6
TOT OBS	302	529	252	44	6	1133		12.1	327	318	165	323
TOT PCT	26.7	46.7	22.2	3.9	.5		100.0		100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1870-1971

TABLE 4

AREA 0006 COFFS HARBOUR
30.35 153.2E

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00603	2.1	7.6	40.4	37.0	10.4	1.8	.6	12.3	100.0	327
06609	1.6	4.4	41.5	39.0	11.6	1.9	.0	12.9	100.0	318
12615	4.2	3.0	47.3	33.9	9.7	1.8	.0	11.7	100.0	165
18621	.6	8.4	45.8	36.5	8.0	.6	.0	11.2	100.0	323
TOT	21	71	490	419	113	17	2	12.1		1133
PCT	1.9	6.3	43.2	37.0	10.0	1.5	.2		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	12.1	3.5	5.0	2.0		3.1
NE	8.3	3.0	3.6	2.6		3.6
E	2.3	1.2	1.6	2.7		4.8
SE	3.4	2.6	3.2	2.2		4.4
S	6.2	4.3	3.4	3.6		4.0
SW	3.9	1.4	2.0	2.4		3.8
W	3.7	.5	.4	.7		2.4
NW	4.0	.5	.7	.4		2.3
VAR	.0	.0	.0	.0		.0
CALM	1.1	.7	.4	.4		3.2
TOT OBS	127	50	57	48	282	3.6
TOT PCT	45.0	17.7	20.2	17.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

BY WIND DIRECTION																		
WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	12.1	3.5	5.0	2.0		3.1	.0	.0	.3	1.0	1.2	.6	.0	.0	.0	.5	19.0	
NE	8.3	3.0	3.6	2.6		3.6	.0	.0	.0	1.1	.8	1.1	.4	.4	.0	.5	13.4	
E	2.3	1.2	1.6	2.7		4.8	.0	.3	.3	1.0	.9	1.1	.0	.0	.0	.0	4.4	
SE	3.4	2.6	3.2	2.2		4.4	.0	.1	.4	.1	1.2	1.8	.0	.0	.0	.0	7.7	
S	6.2	4.3	3.4	3.6		4.0	.0	.0	.0	1.0	1.5	1.6	.3	.0	.0	.0	13.1	
SW	3.9	1.4	2.0	2.4		3.8	.0	.0	.0	.8	2.0	.2	.4	.0	.0	.0	6.3	
W	3.7	.5	.4	.7		2.4	.0	.0	.0	.4	.4	.0	.4	.0	.0	.0	4.3	
NW	4.0	.5	.7	.4		2.3	.0	.0	.1	.1	.4	.1	.0	.0	.0	.0	4.9	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.1	.7	.4	.4		3.2	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	2.1	
TOT OBS	127	50	57	48	282	3.6	0	1	3	15	24	19	4	1	0	3	212	282
TOT PCT	43.0	17.7	20.2	17.0	100.0		.0	.4	1.1	5.3	8.5	6.7	1.4	.4	.0	1.1	75.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)			VSBY (NM)			VSBY (NM)		
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>0
>4500	.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>4000	1.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
>3500	2.8	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
>3000	9.1	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
>2500	15.0	18.5	18.5	18.5	18.5	18.5	18.5	18.5	18.5
>2000	18.2	23.4	23.8	23.8	23.8	23.8	23.8	23.8	23.8
>1500	18.9	24.1	24.8	24.8	24.8	24.8	24.8	24.8	24.8
>1000	19.2	24.5	25.2	25.2	25.2	25.2	25.2	25.2	25.2
>500	19.2	24.5	25.2	25.2	25.2	25.2	25.2	25.2	25.2
>0	55	70	72	72	72	72	72	72	72

TOTAL NUMBER OF OBS: 286

PCT FREQ NH <5/8: 74.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL OBS
17.1	24.2	13.7	12.4	7.5	4.7	4.0	6.5	9.9	322

PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1870-1971

OCTOBER

AREA 0006 COFFS HARBOUR
30.3S 153.2E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY													
VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	NO PCP	.3	.1	.1	.0	.1	.1	.1	.1	.0	.0	1.0	1.2
	TOT %	.3	.1	.1	.1	.1	.1	.1	.1	.0	.0	1.1	1.2
1<2	PCP	.1	.0	.0	.0	.2	.2	.0	.0	.0	.0	.6	.6
	NO PCP	1.6	.6	.1	.0	.5	.3	.5	.6	.0	.0	4.2	4.8
	TOT %	1.7	.6	.1	.0	.7	.5	.5	.6	.0	.0	4.8	4.8
2<5	PCP	.1	.0	.0	.1	.1	.1	.1	.0	.0	.0	.6	.6
	NO PCP	.3	.1	.0	.1	.2	.1	.0	.3	.0	.0	1.2	1.7
	TOT %	.4	.1	.0	.3	.3	.2	.1	.3	.0	.0	1.7	1.7
5<10	PCP	.7	.1	.1	.3	2.2	1.1	.3	.3	.0	.0	5.2	5.2
	NO PCP	6.6	4.4	2.8	3.8	6.3	2.3	2.4	1.8	.0	.1	30.5	30.5
	TOT %	7.3	4.5	3.0	4.1	8.5	3.4	2.7	2.1	.0	.1	35.7	35.7
10+	PCP	.1	.3	.3	.5	.9	.1	.0	.0	.0	.0	2.2	2.2
	NO PCP	13.0	10.6	4.0	5.1	9.1	5.3	2.9	3.1	.0	1.3	54.5	54.5
	TOT %	13.1	10.9	4.3	5.5	10.0	5.4	2.9	3.1	.0	1.3	56.6	56.6
TOT OBS													694
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY													
VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1
	4-10	.0	.1	.1	.0	.1	.1	.0	.0	.0	.0	.2	.2
	11-21	.1	.0	.0	.1	.1	.1	.0	.0	.0	.0	.4	.4
	22+	.1	.0	.0	.0	.0	.0	.0	.1	.0	.0	.2	.2
	TOT %	.2	.1	.1	.1	.1	.1	.1	.1	.1	.0	1.0	1.0
1<2	0-3	.1	.1	.0	.0	.1	.1	.0	.0	.0	.0	.2	.2
	4-10	.3	.1	.1	.0	.0	.2	.4	.4	.0	.0	1.6	1.6
	11-21	.4	.2	.0	.0	.5	.2	.0	.1	.0	.0	1.5	1.5
	22+	.7	.1	.0	.0	.1	.0	.0	.0	.0	.0	.9	.9
	TOT %	1.5	.5	.1	.0	.7	.4	.4	.5	.0	.0	4.2	4.2
2<5	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	4-10	.0	.1	.1	.1	.1	.2	.0	.4	.0	.0	1.0	1.0
	11-21	.4	.1	.1	.2	.5	.1	.0	.0	.0	.0	1.3	1.3
	22+	.1	.0	.0	.0	.1	.1	.1	.0	.0	.0	.4	.4
	TOT %	.6	.4	.2	.3	.6	.4	.1	.4	.0	.0	2.9	2.9
5<10	0-3	.4	.4	.3	.1	.4	.2	.2	.1	.0	.1	2.3	2.3
	4-10	1.9	1.6	1.6	2.0	2.3	.9	1.5	1.6	.0	.0	13.3	13.3
	11-21	2.8	2.2	.9	.9	2.9	2.0	.5	.4	.0	.0	12.7	12.7
	22+	1.9	.2	.1	.4	1.8	.0	.2	.2	.0	.0	4.6	4.6
	TOT %	6.9	4.4	3.0	3.4	7.4	3.1	2.5	2.3	.0	.1	33.1	33.1
10+	0-3	.7	.3	.2	.2	.4	.3	.4	.2	.0	1.2	3.9	3.9
	4-10	4.4	6.4	3.1	3.8	3.0	2.5	2.1	2.4	.0	.0	27.7	27.7
	11-21	6.5	3.8	.9	1.5	5.5	2.6	.8	1.0	.0	.0	22.6	22.6
	22+	1.2	.2	.2	.3	1.3	.8	.5	.2	.0	.0	4.6	4.6
	TOT %	12.9	10.7	4.2	5.8	10.1	6.2	3.9	3.8	.0	1.2	58.9	58.9
TOT OBS													819
TOT PCT													100.0

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PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1870-1971

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30.35 153.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	5.8	5.8	6.8	2.9	.0	.0	.0	21.4	78.6	103
06009	.0	.0	1.2	1.2	10.5	5.6	1.2	.0	.0	2.3	22.1	77.9	86
12015	.0	1.6	1.6	9.5	9.5	4.8	1.6	1.6	.0	.0	30.2	69.8	63
18021	.0	.0	1.6	3.3	6.6	6.6	.0	.0	.0	1.6	19.7	80.3	61
TOT	0	1	3	15	25	19	5	1	0	3	72	241	313
PCT	.0	.3	1.0	4.8	8.0	6.1	1.6	.3	.0	1.0	23.0	77.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.4	6.0	2.8	24.8	65.1	218
06009	.0	1.7	4.2	2.6	35.5	56.0	234
12015	.0	.0	1.4	2.8	32.4	63.4	142
18021	.0	.8	4.0	3.2	40.5	51.4	247
TOT	0	9	35	24	283	490	841
PCT	.0	1.1	4.2	2.9	33.7	58.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 3+	TOTAL OBS
00003	.0	.0	9.7	17.2	73.1	93
06009	.0	1.3	3.9	22.1	74.0	77
12015	.0	3.3	13.1	18.0	68.9	61
18021	.0	1.8	9.5	16.4	78.2	55
TOT	0	4	23	53	210	286
PCT	.0	1.4	8.0	18.5	73.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.4	.2	.0	.0	3	.6
75/79	.0	.0	.0	.6	.9	1.3	.4	.4	17	3.6
70/74	.0	.0	.6	2.3	3.8	7.9	8.1	2.6	117	24.9
65/69	.0	.4	1.3	4.1	7.9	14.5	15.6	8.5	245	52.2
60/64	.0	.0	.4	1.3	5.3	4.5	7.8	2.3	78	16.6
55/59	.0	.0	.0	.0	.0	.6	.4	.9	9	1.9
TOTAL	0	2	11	30	86	134	128	69	469	100.0
PCT	.0	.4	2.3	8.3	18.3	28.6	27.3	14.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.2	.0	.2	.0	.2	.0	.0	.0	.0
1.7	.5	.4	.0	.2	.0	.0	.6	.0	.2
9.3	4.4	1.3	1.5	3.0	2.0	1.0	1.9	.0	.4
9.7	10.7	5.2	5.7	11.1	3.8	2.3	2.5	.0	1.3
1.1	.5	1.3	1.6	4.6	3.3	2.7	1.5	.0	.0
.0	.2	.0	.0	.5	.5	.4	.2	.0	.0
21.7	16.6	8.2	9.0	19.6	9.9	6.4	6.7	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	78	75	69	62	59	57	69.0	321
06009	83	80	75	69	63	60	55	68.8	313
12015	77	74	72	67	61	58	57	66.9	167
18021	76	73	71	65	59	57	56	65.4	327
TOT	83	78	74	68	61	58	55	67.6	1128

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	15.7	20.0	32.9	22.9	8.6	72	140
06009	.0	11.8	16.9	29.4	31.6	10.3	75	136
12015	.0	10.3	14.9	24.1	26.4	24.1	78	87
18021	.0	5.0	19.0	25.6	29.8	20.7	78	121
TOT	0	53	87	138	134	72	76	484

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PERIOD: (PRIMARY) 1913-1971
(OVER-ALL) 1970-1971

TABLE 17

AREA 0006 COFFS HARBOUR
30.35 153.2EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WQ FOG
11/13	.0	.0	.0	.0	.0	.0	.2	.2	2	.0	.3
9/10	.0	.0	.0	.2	.0	.0	.0	.0	1	.0	.2
7/8	.0	.0	.3	.2	.3	.3	.5	.0	11	.0	1.8
6	.0	.0	.2	.0	.6	.5	.2	.0	9	.2	1.3
5	.0	.0	.2	.2	1.1	.8	.0	.2	15	.0	2.4
4	.0	.0	.3	.3	1.3	1.3	.5	.0	23	.0	3.6
3	.0	.0	.0	.6	1.3	1.1	.0	.0	19	.0	3.0
2	.0	.0	.6	2.1	4.8	2.2	.2	.0	62	.8	9.1
1	.0	.2	.5	3.3	6.1	.5	.0	.0	66	.2	10.4
0	.0	.0	1.3	5.1	6.4	1.0	.0	.0	66	.6	13.1
-1	.0	.6	1.0	4.8	3.8	.6	.0	.0	68	.2	10.7
-2	.0	.5	3.2	5.3	2.7	.3	.0	.0	75	.2	11.8
-3	.0	.2	1.0	6.2	1.6	.0	.2	.0	57	.3	8.8
-4	.0	.2	3.2	3.2	.8	.5	.0	.0	49	.0	7.8
-5	.0	.3	2.5	2.2	.2	.0	.0	.0	33	.2	5.1
-6	.2	.8	1.3	1.6	.0	.0	.0	.0	24	.2	3.7
-7/-8	.0	.2	2.2	1.0	.0	.0	.0	.0	21	.2	3.2
-9/-10	.0	.0	.2	.2	.0	.0	.0	.0	2	.0	.3
-11/-13	.2	.2	.3	.0	.0	.0	.0	.0	4	.2	.5
-14/-16	.0	.2	.0	.0	.0	.0	.0	.0	1	.0	.2
TOTAL	2		114		193		10		628	19	609
PCT	.3	3.2	18.2	36.3	31.1	9.1	1.6	.3	100.0	3.0	97.0

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.8	.0	.0	.0	.0	1.7	.4	1.4	.0	.0	.0	.0	1.9
1-2	.0	3.4	2.0	.0	.0	.0	5.4	.0	5.2	1.0	.0	.0	.0	6.2
3-4	.0	2.1	5.5	.8	.0	.0	8.4	.0	3.5	3.2	.1	.0	.0	6.9
5-6	.0	.0	2.9	.9	.0	.0	3.8	.0	.4	2.0	.0	.0	.0	2.4
7	.0	.0	1.2	1.7	.0	.0	2.9	.0	.1	.6	.0	.0	.0	.7
8-9	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	6.3	12.1	3.3	.0	.0	22.6	.4	10.7	6.7	.1	.0	.0	18.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8	.0	1.4	.0	.0	.0	.0	1.4
1-2	.3	2.9	.4	.0	.0	.0	3.7	.6	2.8	.6	.0	.0	.0	3.9
3-4	.0	.8	.9	.0	.0	.0	1.7	.0	2.0	1.0	.0	.0	.0	3.0
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.9	1.0	.1	.0	.0	2.0
7	.0	.3	.3	.0	.0	.0	.7	.0	.0	1.0	.4	.0	.0	1.4
8-9	.0	.0	.4	.3	.0	.0	.8	.0	.0	.0	.1	.1	.0	.2
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	4.8	2.1	.7	.0	.0	7.9	.6	7.1	3.5	.8	.1	.0	12.1

PERIOD: (OVER-ALL) 1963-1971

OCTOBER

AREA 0006 COFFS HARBOUR
30.35 153.2E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.4	.4	.0	.0	.0	.0		.9	.0	1.3	.0	.0	.0	.0		1.3
1-2	.0	2.4	1.1	.0	.0	.0		3.5	.1	2.7	.1	.0	.0	.0		2.9
3-4	.0	3.0	4.3	.4	.0	.0		7.7	.0	.9	2.7	.0	.0	.0		3.5
5-6	.0	.0	2.1	.3	.0	.0		2.4	.0	.0	.4	.0	.0	.0		.4
7	.0	.0	.7	.4	.0	.0		1.1	.0	.0	1.1	.0	.0	.0		1.1
8-9	.0	.0	.4	.0	.3	.0		.8	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.4	5.9	8.6	1.2	.3	.0		16.5	.1	4.9	4.3	.0	.0	.0		9.3

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0		.0	.0	.9	.0	.0	.0	.0		.9	
1-2	.3	1.7	.0	.0	.0	.0		2.0	.0	2.0	.1	.0	.0	.0		2.1	
3-4	.0	1.3	.0	.0	.0	.0		1.3	.0	.1	.6	.0	.0	.0		.7	
5-6	.0	.0	.4	.0	.4	.0		.9	.0	.0	.4	.0	.0	.0		.4	
7	.0	.0	.0	.9	.0	.0		.9	.0	.0	.0	.1	.0	.0		.1	
8-9	.0	.0	.3	.0	.0	.0		.3	.0	.0	.1	.0	.0	.0		.1	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	3.0	.8	.9	.4	.0		5.4	.0	3.0	1.2	.1	.0	.0		4.3	96.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	6.1	7.0	.0	.0	.0	.0	13.1	
1-2	1.7	23.1	5.2	.0	.0	.0	30.1	
3-4	.0	13.5	17.9	1.3	.0	.0	32.8	
5-6	.0	1.3	9.2	1.3	.4	.0	12.2	
7	.0	.4	4.8	3.5	.0	.0	8.7	
8-9	.0	.0	1.7	.4	.4	.0	2.6	
10-11	.0	.0	.0	.4	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.9	45.4	38.9	7.0	.9	.0	100.0	229

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	7.7	12.9	6.3	4.8	1.5	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	93	4
6-7	.0	.7	11.8	11.4	8.1	2.6	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	5
8-9	.0	.4	3.0	3.7	4.4	3.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	6
10-11	.0	.0	1.5	1.1	.4	3.0	1.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	7
12-13	.0	.0	.0	.7	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	6
>13	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
INDET	1.1	.7	1.1	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	3
TOTAL	5	26	82	68	50	30	6	3	1	0	0	0	0	0	0	0	0	0	0	271	5
PCT	1.8	9.6	30.3	25.1	18.5	11.1	2.2	1.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1869-1972

AREA 0006 COFFS HARBOUR
30.35 153.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.2	3.0	.3	.0	.0	.0	.0	5.2	.5	5.3	11.1	.0	4.6	.5	73.7
NE	3.3	4.2	.9	.0	.0	.0	.0	8.2	2.8	1.4	4.9	.0	12.0	.0	70.8
E	9.8	6.3	.0	.0	.0	.0	.0	16.0	1.0	2.8	.7	.0	6.3	.0	73.2
SE	5.6	12.2	1.0	.0	.0	.0	.0	18.7	2.5	.0	.5	.0	2.5	.0	75.7
S	1.4	2.8	.0	.0	.0	.0	.0	4.2	3.6	.8	1.2	.0	3.0	.0	87.1
SW	3.0	4.5	1.5	.0	.0	.0	.0	9.0	1.9	2.2	.7	.0	.0	.0	88.4
W	10.1	4.5	.0	.0	.0	.0	.0	14.6	.0	11.2	.0	.0	3.4	.0	73.0
NW	5.9	1.5	.0	.0	.0	.0	.0	7.4	.0	13.3	11.9	.0	9.6	.0	60.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	10.0	10.0	.0	.0	.0	.0	.0	20.0	.0	10.0	.0	.0	20.0	.0	50.0
TOT PCT	3.9	4.8	.5	.0	.0	.0	.0	9.1	1.8	3.3	4.8	.0	5.6	.1	75.9
TOT OBS:	787														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	2.4	4.3	1.0	.0	.0	.0	.0	7.2	1.4	.0	3.9	.0	9.7	.5	77.3
06009	2.5	5.4	.4	.0	.0	.0	.0	8.3	2.5	1.7	5.8	.0	5.4	.0	76.9
12015	6.3	2.8	.7	.0	.0	.0	.0	9.9	1.4	9.9	1.4	.0	2.1	.0	76.8
18021	5.1	6.0	.0	.0	.0	.0	.0	11.2	1.4	4.2	6.5	.0	5.1	.0	72.6
TOT PCT	3.8	4.8	.5	.0	.0	.0	.0	9.1	1.7	3.3	4.7	.0	5.8	.1	75.8
TOT OBS:	806														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.2	1.7	12.8	2.9	.0	.0		24.7	13.7		23.4	25.0	22.0	21.3	28.1	30.5	24.1	26.7
NE	1.6	6.9	7.9	.9	.1	.0		17.4	11.6		16.4	15.5	21.4	20.9	27.4	18.6	14.5	10.4
E	.8	5.2	2.2	.5	.0	.0		8.8	9.6		4.4	8.7	9.8	11.0	6.6	11.8	9.7	6.7
SE	.9	6.2	4.8	1.3	.4	.0		13.5	12.5		7.0	11.9	22.2	23.6	11.8	13.2	9.7	5.6
S	.9	5.4	6.6	2.0	.6	.1		15.7	14.3		23.6	18.9	15.3	12.6	14.2	11.1	15.9	16.1
SW	.3	3.8	4.3	1.4	.2	.0		10.0	13.8		14.0	9.8	4.7	5.9	4.9	8.9	12.0	17.9
W	.4	1.8	.8	.2	.0	.0		3.2	9.3		5.6	2.5	2.3	.4	2.4	1.8	4.7	5.4
NW	.4	3.1	1.6	.2	.0	.0		5.3	9.7		4.7	6.3	1.8	3.3	.3	4.1	9.1	8.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0		.9	1.4	.4	.8	4.2	.0	3.0	2.3
TOT OBS	99	505	516	117	16	1	1254		12.4		107	216	244	127	72	110	203	175
TOT PCT	7.9	40.3	41.1	9.3	1.3	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	03	06	12
N	3.3	12.9	7.3	1.1	.0		24.7	13.7	24.5	21.8	29.5	25.3
NE	3.6	9.8	3.7	.3	.0		17.4	11.6	15.8	21.2	22.1	12.6
E	3.0	4.9	.6	.2	.0		8.8	9.6	7.3	10.2	9.8	8.1
SE	3.1	6.8	2.8	.8	.2		13.5	12.5	10.3	22.7	12.6	7.7
S	3.1	7.0	4.2	1.1	.3		15.7	14.3	20.4	14.4	12.4	14.6
SW	1.8	4.8	2.8	.6	.0		10.0	13.8	11.2	9.1	7.3	14.9
W	1.3	1.7	.2	.1	.0		3.2	9.3	3.6	1.6	2.1	5.0
NW	1.8	2.7	.7	.4	.0		5.3	9.7	5.7	2.4	2.6	9.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	1.2	.5	1.6	2.6
TOT OBS	281	635	279	53	6	1254		12.4	323	371	182	378
TOT PCT	22.4	50.6	22.2	4.2	.5		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.2	9.0	39.6	39.6	8.4	1.9	.3	12.0	100.0	323
06009	.5	3.0	38.3	43.9	12.7	1.6	.0	13.7	100.0	371
12015	1.6	3.3	37.9	46.7	8.8	1.6	.0	13.0	100.0	182
18021	2.6	9.0	43.9	37.0	7.1	.3	.0	11.0	100.0	378
TOT	19	80	505	516	117	16	1	12.4		1254
PCT	1.5	6.4	40.3	41.1	9.3	1.3	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	13.8	2.0	6.5	2.3		3.1
NE	7.2	2.5	5.8	3.8		4.1
E	1.0	1.0	1.7	2.0		4.6
SE	3.1	2.5	2.6	2.9		4.5
S	7.3	4.1	4.3	4.7		4.1
SW	5.7	1.8	1.6	.6		2.9
W	1.4	.6	.7	.9		4.3
NW	1.7	.2	1.1	.0		3.0
VAR	.0	.0	.0	.0		.0
CALM	1.3	.0	.3	.3		2.6
TOT OBS	131	44	74	53	302	3.8
TOT PCT	43.4	14.6	24.5	17.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.7	1.3	.6	.7	.0	.0	.7	20.7	
.0	.0	.1	1.7	1.9	1.2	1.1	.0	.0	.3	13.1	
.0	.0	.2	.6	.0	1.2	.8	.0	.0	.0	3.6	
.3	.0	.0	1.4	1.4	.4	.4	.0	.0	.0	7.1	
.0	.0	.0	2.2	2.8	2.2	.0	.0	.0	.0	13.2	
.0	.0	.0	.6	.4	.7	.0	.0	.0	.0	8.0	
.0	.0	.0	.6	.3	.3	.0	.0	.0	.0	2.3	
.0	.0	.0	.0	.4	.3	.0	.0	.0	.0	2.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	1.3	
1	0	1	24	26	22	9	0	0	3	216	302
.7	.0	.3	7.9	8.6	7.3	3.0	.0	.0	1.0	71.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>30YD	>0
>6500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>5000	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
>3500	3.5	3.9	3.9	3.9	3.9	3.9	3.9	3.9
>2000	9.3	10.9	10.9	10.9	10.9	10.9	10.9	10.9
>1000	16.4	19.3	19.3	19.3	19.3	19.3	19.3	19.3
>600	20.9	26.4	27.0	27.0	27.0	27.0	27.0	27.0
>300	20.9	26.4	27.3	27.3	27.3	27.3	27.3	27.3
>150	20.9	26.4	27.3	27.3	27.3	27.3	27.3	27.3
>0	20.9	26.7	27.7	27.7	27.7	27.7	27.7	27.7
TOTAL	65	63	66	66	66	66	66	66

TOTAL NUMBER OF OBS: 311

PCT FREQ NH <5/8: 72.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL
										OBS
20.0	20.3	15.6	9.7	6.2	5.3	5.3	6.5	10.9	.3	340

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.1	.1
	TOT %	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.1	.1
1/2<1	PCP	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5
	NO PCP	2.5	.8	.1	.1	.2	.1	.0	.3	.0	.0	3.9	3.9
	TOT %	2.7	1.1	.1	.1	.2	.1	.0	.3	.0	.0	4.4	4.4
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	1.5	1.5	.3	.1	.1	.0	.0	.5	.0	.0	3.9	3.9
	TOT %	1.5	1.5	.3	.1	.1	.0	.0	.5	.0	.0	3.9	3.9
2<5	PCP	.1	.1	.1	.0	.0	*	.1	.0	.0	.0	.4	.4
	NO PCP	.4	.0	.0	.1	.0	.0	.1	.0	.0	.0	.6	.6
	TOT %	.4	.1	.1	.1	.0	*	.2	.0	.0	.0	1.0	1.0
5<10	PCP	1.0	.6	1.3	2.2	.4	.7	.2	.3	.0	.1	6.9	6.9
	NO PCP	8.6	4.8	4.5	4.5	4.4	2.1	.8	1.1	.0	.4	31.1	31.1
	TOT %	9.6	5.4	5.7	6.7	4.8	2.8	1.0	1.5	.0	.5	38.0	38.0
10+	PCP	.2	.5	.1	.1	.2	*	.1	.0	.0	.1	1.4	1.4
	NO PCP	13.0	9.8	2.9	5.4	10.4	5.6	1.4	2.0	.0	.6	51.1	51.1
	TOT %	13.2	10.2	3.0	5.5	10.6	5.6	1.6	2.0	.0	.8	52.5	52.5
TOT OBS													787
TOT PCT		27.4	18.3	9.1	12.5	15.8	8.5	2.8	4.3	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.1	*	.0	.0	.1	.1
1/2<1	0-3	.1	.1	.0	.1	.0	.0	.0	.1	.0	.0	.3	.3
	4-10	.3	.0	.1	.1	.2	.1	.0	.1	.0	.0	.7	.7
	11-21	1.1	.4	.0	.0	.0	.0	.0	.1	.0	.0	1.6	1.6
	22+	.9	.4	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.3
	TOT %	2.3	.9	.1	.2	.2	.1	.0	.2	.0	.0	3.9	3.9
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.5	.5	.3	.1	.1	.0	.0	.1	.0	.0	1.6	1.6
	11-21	.7	.8	.0	.0	.0	.0	.0	.3	.0	.0	1.8	1.8
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	1.3	1.3	.3	.1	.1	.0	.0	.4	.0	.0	3.5	3.5
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.4	.1	.1	.1	.0	.0	.1	.1	.0	.0	.9	.9
	11-21	.5	.2	.1	.1	.1	.1	.1	.1	.0	.0	1.3	1.3
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.9	.3	.1	.2	.1	.1	.2	.2	.0	.1	2.3	2.3
5<10	0-3	.8	.8	.5	.5	.6	.2	.1	.1	.0	.4	3.9	3.9
	4-10	2.1	2.0	2.4	2.2	1.6	1.6	.4	1.0	.0	.0	13.4	13.4
	11-21	4.6	1.7	1.8	1.9	1.7	.7	.3	.4	.0	.0	13.2	13.2
	22+	1.2	.4	.5	1.6	.7	.5	.0	.1	.0	.0	5.0	5.0
	TOT %	8.8	5.0	5.2	6.2	4.5	3.0	.9	1.5	.0	.4	35.5	35.5
10+	0-3	.3	.7	.2	.1	.2	.1	.4	.1	.0	.7	2.7	2.7
	4-10	3.8	4.8	2.7	3.0	3.7	2.0	.7	1.4	.0	.0	22.2	22.2
	11-21	6.8	4.7	.6	2.3	5.3	2.8	.4	.5	.0	.0	23.5	23.5
	22+	1.5	.5	.1	.4	2.2	1.4	.1	.1	.0	.0	6.3	6.3
	TOT %	12.4	10.7	3.7	5.8	11.3	6.3	1.6	2.2	.0	.7	54.7	54.7
TOT OBS													919
TOT PCT		25.7	18.2	9.3	12.5	16.2	9.5	2.7	4.3	.0	1.2	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	7.0	6.1	6.1	.9	.0	.0	.9	21.1	78.9	114
06009	1.1	.0	1.1	6.5	9.7	5.4	4.3	.0	.0	.0	24.0	72.0	93
12015	.0	.0	.0	10.1	7.2	5.8	4.3	.0	.0	2.9	30.4	69.6	69
18021	.0	.0	.0	5.6	9.3	11.1	1.9	.0	.0	.0	27.8	72.2	54
TOT	1	0	1	24	26	22	9	0	0	3	86	244	330
PCT	.3	.0	.3	7.3	7.9	6.7	2.7	.0	.0	.9	26.1	73.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.4	2.9	4.6	.4	25.9	65.7	239
06009	.0	5.1	3.6	1.4	37.7	52.0	277
12015	.0	1.9	.6	3.9	32.5	61.0	154
18021	.0	4.5	4.1	3.7	42.5	45.1	268
TOT	1	36	33	21	331	516	938
PCT	.1	3.8	3.5	2.2	35.3	55.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.0	1.0	8.6	15.2	76.2	105
06009	1.1	2.2	8.8	19.8	71.4	91
12015	.0	.0	11.3	22.6	66.1	62
18021	.0	.0	7.5	22.6	69.8	53
TOT	2	3	28	60	223	311
PCT	.6	1.0	9.0	19.3	71.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.4	.4	.2	.2	.0	.0	6	1.3
75/79	.0	.0	.7	.2	2.6	4.6	2.8	.4	52	11.3
70/74	.0	.4	.7	2.4	7.6	10.8	18.0	7.6	219	47.5
65/69	.0	.2	.9	5.4	5.6	8.5	9.3	4.8	160	34.7
60/64	.0	.0	.0	1.1	1.3	1.1	.9	.4	22	4.8
55/59	.0	.0	.0	.0	.4	.0	.0	.0	2	.4
TOTAL	0	3	12	44	82	116	143	61	461	100.0
PCT	.0	.7	2.6	9.5	17.8	25.2	31.0	13.2		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.3	.3	.0	.2	.0	.1	.2	.0	.0	.2
75/79	5.5	2.8	.5	.5	.8	.8	.2	.3	.0	.0
70/74	15.9	12.0	3.4	3.9	5.5	2.4	2.3	1.7	.0	.4
65/69	5.9	4.2	3.5	6.3	7.5	3.4	1.1	1.6	.0	1.3
60/64	.7	.0	.6	.1	2.3	.8	.2	.2	.0	.0
55/59	.0	.0	.0	.0	.2	.3	.0	.0	.0	.0
TOTAL	28.3	19.3	8.0	10.9	16.2	7.6	3.9	3.9	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	82	80	78	71	65	62	62	71.2	318
06009	83	81	77	71	65	62	54	70.7	359
12015	75	74	74	69	64	61	59	68.7	187
18021	83	77	75	69	62	59	54	68.5	379
TOT	83	80	76	70	64	60	54	69.8	1243

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	16.5	23.0	25.2	24.5	10.8	73	139
06009	.0	15.8	16.5	28.6	29.3	9.8	74	133
12015	.0	10.5	17.4	16.3	44.2	11.6	78	86
18021	.0	6.9	14.7	26.7	31.9	19.8	79	116
TOT	0	61	86	118	148	61	76	474

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	H FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.1	.1	.0	2	.0	.3
11/13	.0	.0	.0	.0	.0	.0	.1	.1	1	.0	.1
9/10	.0	.0	.0	.0	.0	.1	.1	.0	2	.0	.3
7/8	.0	.0	.0	.0	.3	.6	.3	.0	8	.0	1.1
6	.0	.0	.0	.0	.0	.3	.7	.0	7	.6	.4
5	.0	.0	.1	.0	1.0	.9	.6	.0	18	.0	2.6
4	.0	.0	.0	.0	1.0	3.3	.4	.1	34	.6	4.3
3	.0	.0	.0	.1	1.6	2.6	.4	.0	33	.6	4.1
2	.0	.0	.1	1.3	5.4	4.6	.4	.0	83	.9	11.0
1	.0	.0	.1	1.3	5.3	2.6	.7	.0	70	1.0	9.0
0	.0	.0	.7	4.1	5.6	3.0	.3	.0	98	.6	13.1
-1	.1	.0	.4	3.7	4.1	2.3	.3	.0	77	.4	10.5
-2	.1	.0	1.0	3.4	5.1	.9	.0	.0	74	.1	10.4
-3	.0	.0	.3	5.0	3.3	1.0	.0	.0	67	.1	9.4
-4	.0	.1	.6	3.3	2.4	.0	.0	.0	43	.1	6.3
-5	.0	.0	.0	2.7	1.9	.1	.0	.0	33	.0	4.7
-6	.0	.0	.9	1.6	.7	.0	.0	.0	22	.0	3.1
-7/-8	.0	.4	.9	1.6	.7	.0	.0	.0	23	.0	3.6
-9/-10	.0	.1	.0	.3	.0	.0	.0	.0	3	.0	.4
-11/-13	.0	.0	.3	.0	.0	.0	.0	.0	2	.0	.3
TOTAL	2		38		269		31		702	35	667
PCT	.3	.7	5.4	28.3	38.3	22.2	4.4	.3	100.0	5.0	95.0

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TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	.8	.0	.0	.0	.0	1.2	.4	1.6	.0	.0	.0	.0	2.0
1-2	.0	2.9	3.5	.0	.0	.0	6.5	.4	3.0	2.4	.0	.0	.0	5.8
3-4	.0	1.8	7.2	.8	.0	.0	9.7	.4	2.9	3.5	.0	.0	.0	6.9
5-6	.0	.0	2.5	1.1	.0	.0	3.6	.0	.0	2.8	.5	.0	.0	3.3
7	.0	.0	1.4	.0	.0	.0	1.4	.0	.0	1.3	.0	.0	.0	1.3
8-9	.0	.0	.3	.7	.0	.0	1.0	.0	.0	.1	.5	.0	.0	.6
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.1	.1	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.5	15.3	2.8	.0	.0	24.0	1.2	7.5	10.2	1.1	.0	.0	20.0

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	.4	.0	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.8
1-2	.0	1.7	.3	.0	.0	.0	2.0	.0	2.1	.5	.0	.0	.0	2.5
3-4	.0	1.1	1.4	.0	.0	.0	2.5	.0	1.3	2.2	.0	.0	.0	3.4
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.2	.4	.0	.0	3.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.8	.0	.0	1.2
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	3.1	2.0	.4	.0	.0	5.9	.0	4.3	6.3	1.3	.0	.0	11.9

PERIOD: (OVER-ALL) 1963-1972

NOVEMBER

AREA 0006 COFFS HARBOUR
30.35 153.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.4	.0	.0	.0	.0	.7	.1	.4	.0	.0	.0	.0	.5
1-2	.0	1.6	1.8	.0	.0	.0	3.3	.0	.8	.6	.0	.0	.0	1.4
3-4	.0	1.0	3.2	.0	.0	.0	4.2	.0	1.4	2.3	.4	.0	.0	4.0
5-6	.0	1.0	4.0	1.1	.8	.0	6.9	.0	.0	.2	.3	.0	.0	.7
7	.0	.0	1.2	1.5	.8	.0	3.4	.0	.0	.8	.5	.4	.0	1.7
8-9	.0	.0	.7	.3	.4	.0	1.4	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.4	.6	.0	1.0	.0	.0	.0	.0	.0	.0	.6
20-22	.0	.0	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	3.9	10.9	3.5	2.9	.0	21.6	.1	2.5	3.9	2.3	.6	.0	9.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4	
1-2	.0	1.6	.4	.0	.0	.0	2.0	.0	1.3	.4	.0	.0	.0	1.7	
3-4	.0	.4	.3	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	2.0	.7	.0	.0	.0	2.6	.0	1.7	1.0	.0	.0	.0	2.6	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	5.0	4.6	.0	.0	.0	.0	9.7	
1-2	.4	14.7	9.7	.0	.0	.0	24.7	
3-4	.4	9.7	19.7	1.2	.0	.0	30.9	
5-6	.0	1.2	13.1	3.5	.8	.0	18.5	
7	.0	.0	5.0	2.7	1.2	.0	8.9	
8-9	.0	.0	1.2	1.9	.4	.0	3.5	
10-11	.0	.0	.4	.4	.0	.0	.8	
12	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.4	.4	.0	.0	.8	
17-19	.0	.0	.0	.8	.8	.0	1.5	
20-22	.0	.0	.0	.0	.4	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.8	30.1	49.4	11.2	3.5	.0	100.0	259

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.7	8.4	8.0	9.4	4.0	1.0	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	97	4
6-7	.0	.7	7.0	11.4	6.7	6.4	1.3	2.0	1.3	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	113	7
8-9	.0	.7	3.3	2.7	5.7	2.0	1.0	.7	1.0	1.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	55	7
10-11	.0	.0	.7	.7	.7	1.0	.3	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12	7
12-13	.0	.0	.3	.0	.3	.0	.3	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	5	11
>13	.0	.0	.0	.0	.3	.0	.7	.7	.3	.0	.3	.0	.0	1.0	.0	.0	.0	.0	.0	7	12
INDET	.7	.3	.7	1.0	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	10	6
TOTAL PCT	4	30	60	75	53	32	12	14	9	2	7	3	7	.0	.0	.0	.0	.0	.0	299	6
	1.3	10.0	20.1	25.1	17.7	10.7	4.0	4.7	3.0	1.7	.7	.3	.7	.0	.0	.0	.0	.0	.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1912-1969
(OVER-ALL) 1872-1969AREA 0006 COFFS HARBOUR
30.35 153.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.0	3.3	1.6	.0	.0	.0	.0	7.9	.5	3.3	3.0	.0	6.1	.0	79.2
NE	1.5	1.9	.8	.0	.0	.0	.0	4.1	.8	.4	1.9	.0	3.6	.0	89.3
E	2.7	5.4	.0	.0	.0	.0	.0	8.1	.0	1.0	6.1	.0	1.3	.0	83.5
SE	7.5	6.4	.0	.0	.0	.0	.0	13.9	2.1	.8	5.3	.0	1.1	.0	77.3
S	7.3	8.6	1.3	.0	.0	.0	.7	17.9	.7	6.5	2.3	.0	5.4	.0	72.4
SW	3.3	15.8	2.4	.0	.0	.0	.0	21.5	.0	2.9	6.7	.0	7.2	.0	62.7
W	17.1	.0	4.3	.0	.0	.0	.0	21.4	.0	17.1	11.4	.0	.0	.0	61.4
NW	1.7	3.5	.0	.0	.0	.0	.0	5.2	.0	5.2	8.7	.0	3.5	.0	77.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	4.4	5.5	1.1	.0	.0	.0	.1	11.2	.7	3.2	3.9	.0	4.2	.0	78.4
TOT OBS:	744														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.3	3.3	1.4	.0	.0	.0	.5	8.4	1.4	1.4	4.2	.0	6.1	.0	79.4
06009	6.2	7.0	1.3	.0	.0	.0	.0	14.5	.9	2.2	4.8	.0	5.7	.0	73.1
12015	7.0	5.3	.0	.0	.0	.0	.0	12.3	.0	6.1	1.8	.0	1.8	.0	80.7
18021	5.0	5.9	1.4	.0	.0	.0	.0	12.2	.5	4.5	3.2	.0	2.7	.0	78.8
TOT PCT	5.1	5.4	1.2	.0	.0	.0	.1	11.8	.8	3.2	3.7	.0	4.4	.0	77.6
TOT OBS:	777														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.2	8.9	11.7	2.5	*	.0	24.3	13.0	25.9	20.6	19.0	28.1	25.0	30.2	23.4	29.2	
NE	1.1	9.5	8.2	.9	*	.0	19.7	11.1	20.8	18.0	22.2	30.2	17.2	25.0	16.1	12.2	
E	1.2	7.3	2.6	.2	.0	.0	11.3	8.7	9.3	10.3	15.7	9.9	13.2	11.0	12.8	7.2	
SE	.6	6.1	4.4	1.1	.0	.0	12.2	11.7	4.2	15.2	17.9	11.0	13.2	9.0	11.3	9.7	
S	.8	6.3	8.6	2.3	.3	.0	18.2	13.7	24.5	25.0	16.2	14.7	22.1	14.8	14.1	16.7	
SW	.5	2.7	2.2	.4	.2	.0	5.9	12.0	6.5	4.0	3.2	2.5	2.5	5.7	8.9	11.4	
W	.6	1.5	.2	.0	.1	.2	2.6	10.7	1.6	1.9	1.5	1.7	3.9	1.9	5.0	3.6	
NW	.4	1.9	1.1	.3	.0	.3	3.9	13.2	4.2	2.3	2.4	2.1	2.9	1.4	5.3	8.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.9						1.9	.0	2.8	2.8	1.8	.0	.0	1.0	3.2	1.1	
TOT OBS	98	523	461	90	8	5	1185	11.7	107	214	217	121	51	105	190	180	
TOT PCT	8.3	44.1	38.9	7.6	.7	.4	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	03	09	15
N	4.0	12.7	7.0	.7	.0	24.3	13.0	22.4	22.3	28.5	26.2	
NE	4.5	11.4	3.6	.2	.0	19.7	11.1	18.9	25.1	22.4	14.2	
E	3.9	6.5	.8	.0	.0	11.3	8.7	10.0	13.6	11.7	10.1	
SE	2.8	6.1	3.0	.2	.0	12.2	11.7	11.5	13.4	10.4	10.5	
S	3.5	7.8	6.4	.4	.1	18.2	13.7	24.8	15.7	17.1	15.3	
SW	1.7	2.7	1.2	.3	.0	5.9	12.0	4.8	3.0	4.6	10.1	
W	1.4	.9	*	.0	.3	2.6	10.7	1.8	1.6	2.6	4.3	
NW	1.3	1.6	.7	*	.3	3.9	13.2	3.0	2.3	1.9	7.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.9					1.9	.0	2.8	1.2	.6	2.2	
TOT OBS	297	590	268	23	7	1185	11.7	321	338	156	370	
TOT PCT	25.1	49.8	22.6	1.9	.6	100.0		100.0	100.0	100.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1912-1969
(OVER-ALL) 1872-1969

AREA 0006 COFFS HARBOUR
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND SPEED (KNOTS)											TOTAL OBS
HOUR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ		
00003	2.8	8.4	43.3	38.0	6.9	.3	.3	11.1	100.0	321	
06009	1.2	3.3	41.7	43.2	8.9	1.5	.3	12.9	100.0	338	
12015	.6	3.8	41.0	43.6	8.3	1.3	1.3	13.0	100.0	156	
18021	2.2	8.6	48.4	33.8	6.8	.0	.3	10.7	100.0	370	
TOT	22	76	523	461	90	8	5	11.7		1185	
PCT	1.9	6.4	44.1	38.9	7.6	.7	.4		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.9	4.3	6.4	4.2		3.9
NE	8.5	1.6	6.0	2.8		3.7
E	3.9	1.6	3.8	2.2		4.4
SE	3.6	3.0	4.0	2.5		4.6
S	4.7	2.1	7.8	4.6		5.1
SW	1.6	.7	1.7	.9		4.4
W	.7	.7	.6	.6		4.6
NW	1.2	.5	1.4	.5		4.1
VAR	.0	.0	.0	.0		.0
CALM	1.1	.0	.4	.7		4.0
TOT OBS	94	40	88	52	274	4.3
TOT PCT	34.3	14.6	32.1	19.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.2	.0	.7	.4	2.1	1.4	.4	.0	.0	.0	.0	18.7
NE	.2	.0	.5	.7	.8	1.6	.4	.0	.0	.0	.0	14.7
E	.0	.0	.6	.7	1.8	.5	.0	.0	.0	.0	.0	7.8
SE	.0	.0	.0	1.6	1.4	1.3	.0	.0	.0	.0	.0	5.9
S	.0	.0	.9	2.6	4.6	1.6	.4	.0	.0	.0	.3	8.8
SW	.0	.4	.5	1.0	.2	.1	.0	.0	.0	.0	.1	2.7
W	.0	.0	.0	.6	.4	.0	.0	.0	.0	.0	.0	1.7
NW	.0	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	2.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	1.1
TOT OBS	1	1	9	21	37	18	3	0	0	1	183	274
TOT PCT	.4	.4	3.3	7.7	13.5	6.6	1.1	.0	.0	.4	66.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.3	.3	.3	.3	.3	.3	.3
= OR >5000	.0	.3	.3	.3	.3	.3	.3	.3
= OR >3500	1.0	1.7	1.7	1.7	1.7	1.7	1.7	1.7
= OR >2000	6.6	8.4	8.4	8.4	8.4	8.4	8.4	8.4
= OR >1000	15.7	21.7	21.7	21.7	21.7	21.7	21.7	21.7
= OR >600	21.0	29.4	29.4	29.4	29.4	29.4	29.4	29.4
= OR >300	22.4	32.5	32.5	32.5	32.5	32.5	32.5	32.5
= OR >150	22.4	32.5	32.9	32.9	32.9	32.9	32.9	32.9
= OR >0	22.4	32.5	32.9	33.2	33.2	33.2	33.2	33.2
TOTAL	64	93	94	95	95	95	95	95

TOTAL NUMBER OF OBS: 286

PCT FREQ NH <5/8: 66.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	11.5	21.8	16.8	7.8	8.1	6.5	8.1	6.9	12.1	321

PERIOD: (PRIMARY) 1912-1969
(OVER-ALL) 1872-1969

DECEMBER

AREA 0006 COFFS HARBOUR
30.35 153.3E

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.3	
	TOT %	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.4	
1/2<1	PCP	.1	.0	.1	.2	.2	.0	.0	.1	.0	.0	.8	
	NO PCP	.4	.1	.4	.5	.1	.2	.1	.2	.0	.0	2.0	
	TOT %	.5	.1	.5	.7	.3	.2	.1	.3	.0	.0	2.8	
1<2	PCP	.1	.1	.0	.0	.0	.0	.1	.0	.0	.0	.4	
	NO PCP	1.1	.4	.1	.2	.6	.5	.0	.0	.0	.0	2.8	
	TOT %	1.2	.5	.1	.2	.6	.5	.1	.0	.0	.0	3.2	
2<5	PCP	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.4	
	NO PCP	.4	.2	.0	.0	.1	.1	.1	.1	.0	.0	1.1	
	TOT %	.4	.3	.0	.0	.4	.2	.1	.1	.0	.0	1.5	
5<10	PCP	1.0	.3	.7	1.4	2.9	1.3	.4	.1	.0	.0	8.1	
	NO PCP	9.4	6.7	3.5	3.3	7.6	2.4	.5	1.7	.0	.4	35.3	
	TOT %	10.4	7.0	4.1	4.7	10.5	3.7	.9	1.7	.0	.4	43.4	
10+	PCP	.7	.1	.0	.1	.3	.1	.0	.0	.0	.0	1.3	
	NO PCP	11.5	9.8	5.2	6.8	8.4	2.2	1.0	1.6	.0	.7	47.3	
	TOT %	12.2	9.9	5.2	6.9	8.7	2.3	1.0	1.6	.0	.7	48.7	
TOT OBS													744
TOT PCT		24.7	17.8	10.0	12.6	20.6	7.0	2.4	3.9	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.3	
1/2<1	0-3	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	
	4-10	.0	.0	.4	.3	.0	.1	.0	.1	.0	.0	1.0	
	11-21	.2	.1	.0	.2	.2	.0	.0	.0	.0	.0	.6	
	22+	.3	.0	.0	.1	.0	.0	.1	.2	.0	.0	.7	
	TOT %	.4	.1	.4	.6	.2	.2	.1	.3	.0	.0	2.3	
1<2	0-3	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0	.3	
	4-10	.1	.2	.0	.2	.6	.1	.1	.0	.0	.0	1.2	
	11-21	.7	.3	.1	.2	.2	.2	.0	.0	.0	.0	1.7	
	22+	.3	.2	.0	.0	.1	.0	.0	.0	.0	.0	.6	
	TOT %	1.1	.6	.1	.4	.9	.4	.2	.1	.0	.0	3.8	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	11-21	.5	.3	.0	.0	.2	.0	.0	.0	.0	.0	1.0	
	22+	.1	.2	.0	.0	.2	.0	.1	.1	.0	.0	.7	
	TOT %	.6	.4	.0	.0	.4	.1	.1	.1	.0	.0	1.8	
5<10	0-3	.7	.2	.3	.2	.4	.0	.3	.2	.0	.3	2.7	
	4-10	3.7	3.0	2.1	1.3	3.0	1.1	.5	.7	.0	.0	15.4	
	11-21	4.4	2.9	1.0	1.9	4.1	1.6	.0	.5	.0	.0	16.4	
	22+	.7	.1	.1	.6	1.4	.4	.1	.2	.0	.0	3.3	
	TOT %	9.4	6.2	3.3	4.0	8.9	3.1	.9	1.6	.0	.3	37.9	
10+	0-3	.3	.5	.6	.2	.2	.2	.2	.1	.0	.7	3.0	
	4-10	5.5	6.2	3.6	3.9	2.7	1.3	.8	1.0	.0	.0	24.8	
	11-21	6.9	5.3	1.3	2.9	4.8	.6	.3	.6	.0	.0	22.7	
	22+	1.0	.2	.1	.5	1.1	.4	.0	.1	.0	.0	3.3	
	TOT %	13.8	12.1	5.6	7.4	8.8	2.5	1.3	1.8	.0	.7	53.9	
TOT OBS													898
TOT PCT		25.2	19.5	9.6	12.5	19.5	6.4	2.5	3.9	.0	1.0	100.0	

DECEMBER

PERIOD: (PRIMARY) 1917-1969
(OVER-ALL) 1872-1969

AREA 0006 COFFS HARBOUR
30.35 153.3E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	2.7	7.1	13.4	6.3	1.8	.0	.0	.9	32.1	67.9	112
06009	.0	.0	4.6	10.3	9.2	5.7	1.1	.0	.0	.0	31.0	69.0	87
12015	2.0	.0	4.0	8.0	10.0	4.0	2.0	.0	.0	.0	30.0	70.0	50
18021	.0	1.7	.0	1.7	17.2	8.6	.0	.0	.0	.0	29.3	70.7	58
TOT	1	1	9	22	38	19	4	0	0	1	95	212	307
PCT	.3	.3	2.9	7.2	12.4	6.2	1.3	.0	.0	.3	30.9	69.1	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.4	2.0	2.8	.8	28.0	65.9	246
06009	.4	3.4	5.7	2.3	43.8	44.5	265
12015	.0	1.5	3.0	2.3	38.3	54.9	133
18021	.3	1.7	3.5	2.1	41.8	50.5	287
TOT	3	21	36	17	356	498	931
PCT	.3	2.3	3.9	1.8	38.2	53.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	2.8	12.1	23.4	64.5	107
06009	.0	6.3	18.8	17.5	63.8	80
12015	2.1	6.4	17.0	17.0	66.0	47
18021	.0	1.9	7.7	28.8	63.5	52
TOT	1	12	40	62	184	286
PCT	.3	4.2	14.0	21.7	64.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.2	.0	.0	.0	.0	.0	1	.2
80/84	.0	.0	.0	.7	.4	1.3	.4	.0	11	2.3
75/79	.0	.0	.0	1.7	3.6	9.5	8.6	3.6	128	26.9
70/74	.0	.0	.0	1.9	9.3	13.1	17.5	10.5	248	52.2
65/69	.0	.0	.0	.8	3.4	2.5	4.4	4.2	73	15.4
60/64	.0	.0	.0	.2	.6	.0	.6	1.5	14	2.9
TOTAL	0	0	1	23	82	125	190	94	475	100.0
PCT	.0	.0	.2	4.8	17.3	26.3	31.6	19.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
.9	.5	.2	.0	.2	.0	.2	.0	.0	.2
11.1	6.3	2.1	1.5	3.1	.9	.4	1.3	.0	.2
12.1	9.1	7.9	6.9	10.3	2.8	.8	1.5	.0	.8
1.3	.6	1.3	2.6	6.2	2.2	.6	.6	.0	.0
.0	.0	.0	.4	.5	1.2	.0	.8	.0	.0
25.4	16.8	11.5	11.5	20.3	7.1	2.0	4.2	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	82	80	74	68	64	60	73.9	322
06009	88	83	79	73	68	63	54	73.3	341
12015	78	77	77	72	67	64	64	71.9	159
18021	85	78	76	72	66	63	62	71.3	376
TOT	88	81	78	73	67	64	54	72.7	1198

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	7.6	18.8	34.0	28.5	11.1	77	144
06009	.0	6.2	18.5	24.7	30.1	20.5	79	146
12015	.0	4.2	18.1	22.2	27.8	27.8	80	72
18021	.0	1.5	12.7	20.1	38.1	27.6	82	134
TOT	0	25	84	128	156	103	79	496

DECEMBER

PERIOD: (PRIMARY) 1912-1969
(OVER-ALL) 1872-1969

TABLE 17

AREA 0006 COFFS HARBOUR
30.35 153.3E

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FDG	NO FDG
14/16	.0	.0	.0	.0	.0	.1	.0	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	.0	.3
9/10	.0	.0	.0	.0	.0	.0	.1	.0	.1	2	.0	.3
7/8	.0	.0	.0	.0	.0	.9	.4	.9	.0	19	.0	2.2
6	.0	.0	.0	.0	.1	.1	.3	.1	.0	5	.0	.7
5	.0	.0	.0	.0	.0	1.2	1.3	.1	.0	18	.1	2.5
4	.0	.0	.0	.0	.6	1.9	2.1	.3	.0	33	.3	4.5
3	.0	.0	.0	.1	.6	2.6	1.6	.0	.0	34	.3	4.7
2	.0	.0	.0	.6	2.6	4.5	1.6	.1	.0	65	.6	8.9
1	.0	.0	.0	.0	2.5	5.1	1.2	.0	.0	60	.1	8.7
0	.0	.0	.0	.6	4.8	7.0	1.9	.1	.0	99	.9	13.7
-1	.0	.0	.0	1.3	4.1	6.3	.6	.0	.0	84	.6	11.7
-2	.0	.0	.1	2.2	6.3	5.3	.7	.0	.0	100	.1	14.5
-3	.0	.0	.1	1.2	3.7	2.5	.3	.0	.0	53	.3	7.5
-4	.0	.0	.0	1.5	3.1	1.0	.1	.0	.0	39	.3	5.4
-5	.0	.0	.1	1.2	1.8	.4	.0	.0	.0	24	.0	3.5
-6	.1	.0	.0	.9	1.5	.3	.0	.0	.0	19	.0	2.7
-7/-8	.0	.0	.0	1.3	.9	.7	.1	.0	.0	21	.3	2.8
-9/-10	.0	.1	.1	.4	.0	.0	.0	.0	.0	3	.1	.6
-11/-13	.0	.0	.1	.3	.0	.0	.0	.0	.0	3	.0	.4
TOTAL	1	1	14	76	221	270	84	12	3	682	28	654
PCT	.1	.1	2.1	11.1	32.4	39.6	12.3	1.8	.4	100.0	4.1	95.9

PERIOD: (OVER-ALL) 1963-1969

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	.8	.0	.0	.0	.0	1.8	.5	.8	.0	.0	.0	.0	1.3
1-2	.0	3.8	.4	.0	.0	.0	4.2	.0	4.4	.3	.0	.0	.0	4.7
3-4	.0	2.9	4.9	.0	.0	.0	7.8	.1	.7	4.6	.0	.0	.0	5.3
5-6	.0	.5	4.8	2.6	.0	.0	7.9	.0	.0	3.0	.0	.0	.0	3.0
7	.0	.0	3.3	.0	.0	.0	3.3	.0	.0	1.3	.0	.0	.0	1.3
8-9	.0	.0	.0	.5	.0	.0	.5	.0	.0	.5	.5	.0	.0	1.0
10-11	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	7.9	13.8	3.6	.0	.0	26.4	.7	5.9	9.8	.3	.0	.0	16.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	.0	.5	.0	.0	.0	.0	.5
1-2	.0	5.9	1.4	.0	.0	.0	7.3	.0	1.6	.5	.0	.0	.0	2.1
3-4	.4	1.4	.9	.0	.0	.0	2.7	.0	2.7	5.7	.0	.0	.0	8.5
5-6	.0	.0	1.0	.0	.0	.0	1.0	.0	.1	1.0	.7	.0	.0	1.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	8.3	3.4	.0	.0	.0	12.1	.0	4.9	7.4	1.2	.0	.0	13.5

PERIOD: (OVER-ALL) 1963-1969

DECEMBER

AREA 0006 COFFS HARBOUR
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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
1-2	.0	2.3	1.4	.0	.0	.0		.0	.8	.7	.0	.0	.0	.0		1.4
3-4	.0	1.6	6.1	.0	.0	.0		.5	.5	.1	.0	.0	.0	.0		1.2
5-6	.0	.4	2.6	1.3	.0	.0		.0	.0	.0	.1	.5	.0	.0		.7
7	.0	.0	1.8	.5	.0	.0		.0	.0	.1	.0	.0	.0	.0		.1
8-9	.0	.0	.5	.5	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
10-11	.0	.0	.0	.5	.5	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.5	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.4	.0	.0		.0	.0	.0	.1	.0	.0	.0		.1
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	4.3	12.5	2.7	.5	.0		20.1	.5	1.3	.9	.3	.3	.0		3.5

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.5	.0	.0	.0	.0	.0		.5	.0	.0	.0	.0	.0	.0		.0	
1-2	.0	.0	.0	.0	.0	.0		.0	1.0	.0	.0	.0	.0	.0		1.0	
3-4	.0	.0	.5	.0	.0	.0		.5	.0	.1	.0	.0	.0	.0		.1	
5-6	.0	.0	.4	.0	.0	.0		.4	.0	.0	.1	.0	.0	.0		.1	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.1	.0	.0	.0		.1	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	1.0		1.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.5	.0		.5	.0	.0	.0	.0	.0	1.0		1.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.5	.0	.9	.0	.5	1.0		3.0	.0	1.2	.3	.0	.0	1.6		3.0	98.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	5.0	3.0	.0	.0	.0	.0	8.0	
1-2	1.0	20.1	4.5	.0	.0	.0	25.6	
3-4	1.0	9.5	22.1	.0	.0	.0	32.7	
5-6	.0	1.0	12.6	4.5	.5	.0	18.6	
7	.0	.0	6.5	.0	.0	.0	6.5	
8-9	.0	.0	1.0	1.5	.0	.0	2.5	
10-11	.0	.0	.5	.0	.5	.0	1.0	
12	.0	.0	.0	1.0	.0	.0	1.0	
13-16	.0	.0	.0	1.0	.0	.0	1.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.5	.5	
23-25	.0	.0	.0	.0	.0	1.0	1.0	
26-32	.0	.0	.0	.0	.5	1.0	1.5	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.0	33.7	47.2	8.0	1.5	2.5	100.0	199

PERIOD: (OVER-ALL) 1949-1969

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	9.3	9.6	8.9	4.4	1.1	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	96	4
6-7	.0	.7	9.6	12.2	7.8	2.2	1.5	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	95	6
8-9	.0	.4	1.9	2.6	3.7	1.9	1.1	.0	.7	.0	1.1	.7	.4	.0	.0	.0	.0	.0	.0	39	9
10-11	.0	.4	.0	1.1	2.2	.7	.4	.7	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	17	8
12-13	.0	.0	.4	.4	.0	.0	.7	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	9
>13	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	3	21
INDET	.0	.7	.7	1.9	.7	.0	.0	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	6
TOTAL	4	31	60	73	52	16	11	6	7	1	4	2	3	0	0	0	0	0	0	270	6
PCT	1.5	11.5	22.2	27.0	19.3	5.9	4.1	2.2	2.6	.4	1.5	.7	1.1	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1855-1973

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD W/ NO PCPN	FGD W/ PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.5	2.4	.6	.0	.0	.0	.0	6.5	.7	3.9	2.5	.0	3.2	*	83.9
NE	6.1	3.5	1.8	.0	.0	.0	.0	11.3	1.4	2.0	2.5	.0	3.2	.1	80.0
E	7.0	7.5	1.4	.0	.0	.0	.0	16.0	1.6	2.4	2.6	.0	1.8	.0	76.5
SE	5.4	9.2	.7	.0	.0	.0	.0	15.2	2.1	1.6	1.2	.0	1.1	.0	79.5
S	4.7	8.1	1.4	.0	.0	.0	.1	14.3	1.9	2.6	1.3	.0	2.3	.0	78.5
SW	4.5	6.4	1.7	.0	.0	.0	.0	12.6	1.0	2.5	1.3	.0	2.1	.0	80.9
W	4.3	3.0	1.3	.0	.0	.0	.0	8.5	.7	5.6	2.4	.0	3.4	.0	80.9
NW	2.6	1.4	.6	.0	.0	.0	.0	4.5	.7	3.9	4.5	.3	3.1	.0	83.7
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.8	.8	.0	.0	.0	.0	.0	1.7	.0	4.2	1.0	.0	4.4	.0	88.8
TOT PCT	4.3	5.2	1.1	.0	.0	.0	*	10.5	1.3	2.7	2.0	*	2.6	*	81.5
TOT OBS:	9460														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
0000	3.4	4.6	.9	.0	.0	.0	*	8.8	1.8	.4	1.8	*	4.0	*	83.3
0600	4.1	5.3	1.0	.0	.0	.0	.0	10.3	1.3	1.5	2.6	.0	3.0	*	81.7
1200	5.7	5.5	1.4	.0	.0	.0	.0	12.6	1.0	7.0	1.4	.0	.7	.0	78.5
1800	5.1	5.8	1.1	.0	.0	.0	.0	12.0	1.1	3.5	2.1	.0	2.1	.0	80.0
TOT PCT	4.5	5.3	1.1	.0	.0	.0	*	10.8	1.3	2.7	2.1	*	2.6	*	81.2
TOT OBS:	9750														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21		
N	1.1	6.9	6.9	1.3	.1	*		16.2	11.4	15.0	15.7	14.7	18.0	19.1	19.4	16.2	15.1		
NE	.8	6.1	4.2	.6	.1	*		11.8	10.6	8.4	10.8	17.1	19.0	13.8	12.3	9.6	7.2		
E	.8	5.0	2.4	.5	.1	*		8.8	10.8	5.4	7.9	11.5	11.3	9.0	10.1	7.9	6.6		
SE	.7	5.3	4.8	1.4	.3	.1		12.5	13.0	8.4	12.6	16.8	18.0	11.8	11.9	9.9	8.9		
S	.8	6.2	8.5	3.1	.7	.1		19.3	14.9	20.7	22.4	22.1	19.9	21.3	15.8	14.5	15.4		
SW	.7	5.6	6.0	2.2	.4	*		14.9	13.6	22.0	14.9	9.1	8.7	12.1	14.1	17.9	21.2		
W	.8	4.1	2.2	.4	.1	*		7.7	9.7	10.1	6.6	3.0	3.7	5.0	8.2	11.7	12.9		
NW	.6	4.4	1.9	.3	*	*		7.2	9.7	8.5	7.6	3.3	4.2	5.4	6.7	10.2	11.1		
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.6							1.6	.0	1.6	1.5	1.3	1.0	2.6	1.6	2.0	1.6		
TOT OBS							15439		12.2	1391	2801	2867	1592	833	1422	2383	2190		
TOT PCT	7.8	43.5	36.8	9.8	1.9	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40						00	06	12	18
N	3.9	8.3	3.6	.4	*		16.2	11.4		15.5	15.9	19.3	15.7
NE	3.3	6.4	1.9	.2	*		11.8	10.6		10.0	16.4	12.8	8.5
E	2.8	4.4	1.2	.3	*		8.8	10.8		7.0	11.5	9.7	7.3
SE	2.7	6.2	2.7	.7	.1		12.5	13.0		11.2	17.2	11.9	9.4
S	3.1	8.7	5.8	1.4	.2		19.3	14.9		21.9	21.9	17.8	14.9
SW	2.7	6.9	4.2	1.0	.1		14.9	13.6		17.2	9.0	13.3	19.4
W	2.6	3.7	1.0	.2	.1		7.7	9.7		7.7	3.2	7.0	12.3
NW	2.6	3.7	.8	.1	*		7.2	9.7		8.0	3.7	6.1	10.6
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0
CALM	1.6						1.6	.0		1.5	1.2	2.0	1.8
TOT OBS						15439		12.2		4152	4459	2255	4573
TOT PCT	25.5	48.4	21.1	4.4	.6		100.0			100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1855-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

PERCENTAGE PRESENT											
HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS	
				11-21	22-33	34-47					
00003	1.5	6.9	43.4	36.8	9.0	2.0	.3	12.1	100.0	4152	
06009	1.2	5.3	41.5	38.7	10.8	2.1	.2	12.8	100.0	4459	
12015	2.0	5.1	42.1	37.0	11.5	2.1	.2	12.7	100.0	2255	
18021	1.8	7.0	46.3	35.0	8.5	1.3	.1	11.5	100.0	4573	
TOT								12.2		15439	
PCT	1.6	6.2	43.5	36.8	9.8	1.9	.2		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.5	2.7	3.7	1.7		3.1
NE	5.0	1.8	3.4	1.9		3.9
E	2.4	1.2	2.7	1.9		4.7
SE	2.6	2.4	4.1	2.4		4.7
S	6.3	4.3	6.1	4.2		4.4
SW	7.5	2.8	3.8	1.4		3.4
W	4.6	1.2	.9	.6		2.9
NW	3.7	.8	1.1	.5		2.8
VAR	.0	.0	.0	.0		.0
CALM	1.0	.2	.3	.2		2.9
TOT OBS					3726	3.7
TOT PCT	41.7	17.4	26.2	14.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

AND OCCURRENCE OF											
000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
*	.0	.1	.6	1.3	.6	.2	.1	.1	.2	13.6	
*	.0	.2	.9	1.0	.7	.2	*	*	*	.1	9.0
	*	.2	.9	1.2	.7	.2	*	*	*	*	4.8
.0	*	.1	1.1	2.1	1.2	.3	*	*	.0	.6	6.7
.1	*	.3	1.9	3.4	1.5	.4	.1	*	*	.1	13.1
.1	*	.2	.8	1.6	.7	.3	.1	*	*	*	11.6
.1		.0	.2	.4	.1	.1	.0	.1	.2	.6	2.2
.0	.0	*	.1	.4	.2	.0	*	.1	*	5.2	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	*	.2	.1	.1	.0	.0	*	1.4	
.2	.1	1.1	6.6	11.6	9.8	1.8	.3	.3	.7	71.5	3726 100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.9	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >5000	1.2	1.3	1.4	1.4	1.4	1.4	1.4	1.4
= OR >3500	2.7	3.1	3.1	3.1	3.1	3.1	3.1	3.1
= OR >2000	7.6	8.8	8.9	8.9	8.9	8.9	8.9	8.9
= OR >1000	16.1	20.0	20.5	20.5	20.5	20.5	20.5	20.5
= OR >600	20.2	26.0	27.0	27.1	27.1	27.1	27.1	27.1
= OR >300	20.5	26.7	27.9	28.0	28.2	28.2	28.2	28.2
= OR >150	20.5	26.8	28.0	28.2	28.3	28.3	28.3	28.3
= OR >0	20.6	27.0	28.2	28.3	28.5	28.5	28.5	28.5

TOTAL NUMBER OF OBS: 3809

PCT FREQ NH <5/8: 71.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	15.7	22.4	14.6	10.4	7.7	5.4	6.5	6.8	10.4	4322

PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1855-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	*	*	.0	*	.0	.0	.0	.0	.0	.1	
	NO PCP	*	*	.0	*	*	*	*	*	.0	*	.1	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.2	
1/2<1	PCP	.1	*	*	*	.1	*	.0	*	.0	.0	.3	
	NO PCP	.4	.2	.2	.2	.2	.1	*	.1	.0	.0	1.3	
	TOT %	.5	.3	.2	.2	.2	.1	*	.1	.0	.0	1.7	
1<2	PCP	*	.1	*	.1	*	.1	*	*	.0	.0	.3	
	NO PCP	.5	.3	.1	.1	.3	.1	.1	.2	.0	.0	1.6	
	TOT %	.6	.3	.1	.1	.3	.2	.1	.2	.0	.0	1.9	
2<5	PCP	.1	.1	.1	.1	.3	.1	.1	*	.0	.0	.8	
	NO PCP	.1	*	.1	.1	.2	.2	*	.1	.0	.0	.8	
	TOT %	.2	.2	.2	.2	.5	.3	.1	.1	.0	.0	1.6	
5<10	PCP	.7	.6	.9	1.3	2.0	1.2	.3	.2	.0	*	7.1	
	NO PCP	5.3	3.2	2.9	3.9	6.1	3.9	2.7	2.3	.0	.3	30.5	
	TOT %	5.9	3.8	3.7	5.2	8.1	5.1	3.0	2.5	.0	.3	37.6	
10+	PCP	.2	.2	.2	.3	.6	.3	.1	.1	.0	*	1.9	
	NO PCP	9.6	6.8	4.2	6.2	10.4	8.9	4.4	3.9	.0	.8	55.1	
	TOT %	9.8	7.0	4.4	6.4	11.0	9.2	4.5	4.0	.0	.8	57.0	
TOT OBS 9457													
TOT PCT		16.9	11.6	8.6	12.2	20.1	14.8	7.7	6.9	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.0	.0	.0	*	.0	.0	.0	*	*	
	4-10	.0	*	*	*	.0	.0	.0	*	.0	*	*	
	11-21	*	*	.0	*	*	*	*	*	.0	*	.1	
	22+	.0	.0	.0	.0	*	.0	.0	.0	.0	*	*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.2	
1/2<1	0-3	*	*	*	*	*	*	*	*	.0	.0	.1	
	4-10	.1	.1	.1	.1	.1	*	*	*	.0	*	.4	
	11-21	.2	.1	.1	.1	.1	*	.0	*	.0	*	.3	
	22+	.2	.1	*	.1	*	*	*	*	.0	*	.3	
	TOT %	.4	.2	.2	.2	.2	.1	*	.1	.0	.0	1.4	
1<2	0-3	*	*	*	*	*	*	*	*	.0	*	.1	
	4-10	.2	.1	.1	*	.1	*	.1	.1	.0	*	.7	
	11-21	.2	.2	*	*	.2	.1	*	.1	.0	*	.8	
	22+	.1	*	*	*	*	*	.0	.0	.0	*	.2	
	TOT %	.5	.3	.1	.1	.3	.2	.1	.2	.0	*	1.9	
2<5	0-3	*	*	.0	*	*	*	.0	*	.0	*	.1	
	4-10	.1	.1	.1	.1	.1	.1	.1	.1	.0	*	.7	
	11-21	.2	.1	.1	.2	.3	.2	*	*	.0	*	1.0	
	22+	*	.1	.1	*	.1	.1	*	*	.0	*	.4	
	TOT %	.3	.3	.2	.3	.6	.4	.1	.1	.0	*	2.2	
5<10	0-3	.5	.3	.3	.3	.3	.3	.3	.2	.0	.3	2.8	
	4-10	2.2	1.8	1.7	1.7	2.3	1.5	1.3	1.3	.0	.0	14.0	
	11-21	2.0	1.2	1.0	1.9	3.1	1.9	.8	.6	.0	.0	12.6	
	22+	.6	.2	.4	.9	1.5	1.0	.2	.1	.0	.0	4.8	
	TOT %	5.4	3.5	3.4	4.8	7.2	4.7	2.6	2.3	.0	.3	34.2	
10+	0-3	.5	.4	.4	.3	.4	.4	.4	.4	.0	.9	4.0	
	4-10	4.1	4.0	3.0	3.5	3.6	3.9	2.7	2.7	.0	.0	27.5	
	11-21	4.6	2.8	1.1	2.6	5.4	4.1	1.4	1.2	.0	.0	23.4	
	22+	.6	.3	.1	.5	1.9	1.4	.3	.1	.0	.0	3.2	
	TOT %	9.9	7.5	4.6	6.9	11.2	9.8	4.9	4.4	.0	.9	60.0	
TOT OBS 11167													
TOT PCT		16.4	11.9	8.5	12.3	19.6	13.1	7.8	7.1	.0	1.2	100.0	

PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1855-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 399	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL DBS	NM <5/8 ANY HGT	TOTAL DBS
00003	.2	.1	.7	5.5	10.3	5.7	1.7	.1	.3	.7	25.1	74.9	1368
06009	.2	.1	1.2	5.9	10.9	4.4	2.0	.3	.3	1.0	26.3	73.7	1813
12015	.3	.3	1.0	8.5	10.7	5.1	1.3	.3	.4	.5	28.3	71.7	787
18021	.1	.1	1.1	4.8	11.0	6.5	1.3	.7	.2	.4	26.4	73.6	778
TOT PCT	.2	.1	1.0	6.1	10.6	5.3	1.7	.3	.3	.7	26.3	73.7	4146 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2 149	1/2<1 299	1<2 399	2<5 999	5<10 1999	10+ 3499	TOTAL DBS
00003	.2	1.2	2.2	1.8	26.5	68.0	2942
06009	.1	2.1	2.1	2.1	37.3	56.3	3321
12015	.2	1.2	.9	2.5	32.8	62.5	1828
18021	.2	1.4	2.0	2.5	40.1	53.8	3366
TOT PCT	.2	1.5	1.9	2.2	34.6	59.6	11457 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 DBS	<600 DBS	<1000 DBS	1000+ AND 5+	NM <5/8 AND 5+	TOTAL DBS
00003	.2	1.3	8.3	19.6	72.1	1268
06009	.2	1.7	9.2	19.8	71.0	1117
12015	.3	1.8	11.8	19.0	69.3	729
18021	.1	1.6	8.3	22.0	69.7	695
TOT PCT	.2	1.5	9.2	20.0	70.8	3809 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
90/94	.0	.0	.0	.0	.0	.0	.0	.0	*	*
85/89	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
80/84	.0	.0	.0	.2	.5	.9	.4	.1	2.1	2.1
75/79	.0	.0	.2	.9	2.7	5.7	4.6	1.7	15.8	15.8
70/74	.0	.1	.6	2.0	6.8	8.2	8.1	4.0	29.9	29.9
65/69	.0	.3	.9	3.1	5.4	7.2	6.7	3.3	27.0	27.0
60/64	.0	.2	1.2	2.4	4.6	5.1	3.7	2.0	19.1	19.1
55/59	.0	.0	.4	.8	1.1	1.2	1.2	.6	5.3	5.3
50/54	.0	.0	.0	.1	.2	.0	.2	.1	.7	.7
TOTAL PCT	*	.6	3.3	9.5	21.4	28.4	24.9	12.0	6050	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
.7	.6	.2	.1	.2	.1	.0	.1	.0	.1
4.4	3.1	1.6	2.0	2.4	.8	.3	.9	.0	.2
5.9	4.1	3.3	4.6	6.2	2.6	1.1	1.7	.0	.5
4.1	2.8	2.1	3.2	6.1	4.2	2.1	2.0	.0	.4
1.5	.9	.9	1.3	4.6	5.2	2.8	1.7	.0	.2
.2	.1	.1	.1	.8	2.2	1.3	.4	.0	*
.0	.0	.0	.0	.0	.2	.3	.0	.0	.0
16.9	11.6	8.2	11.3	20.4	15.3	8.0	7.0	.0	1.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	90	78	76	70	63	60	49	69.5	4087
06009	90	79	76	70	64	60	47	69.5	4434
12015	80	75	73	68	62	59	51	67.7	2278
18021	89	75	73	67	61	58	49	66.8	4589
TOT	90	78	75	69	62	59	47	68.4	15388

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	.0	13.9	23.7	31.2	21.5	9.7	73	1806
06009	.1	17.5	24.1	27.6	20.9	9.8	72	1833
12015	.0	13.2	21.2	26.9	24.9	13.8	75	1023
18021	.0	7.8	15.6	26.6	32.8	17.3	78	1595
TOT	2	833	1337	1766	1549	770	74	6257

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PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1855-1973

TABLE 17

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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FDG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FDG	NO FDG
14/16	.0	.0	.0	.0	.0	.0	*	*	.0	.0	.0	4	.0	*
11/13	.0	.0	.0	*	.0	*	.1	*	*	*	*	19	*	.2
9/10	.0	.0	.0	.0	*	*	*	.1	*	*	*	14	*	.2
7/8	.0	.0	.0	*	*	.2	.2	.3	.1	*	.0	78	.0	.9
6	.0	.0	.0	*	*	.1	.2	.2	.1	*	.0	51	.1	.6
5	.0	.0	.0	.1	.1	.4	.4	.4	.2	.0	.0	131	*	1.5
4	.0	.0	.0	.1	.2	.5	.8	.7	.1	.0	.0	216	.1	2.5
3	.0	.0	.0	.1	.4	.6	1.0	.7	.1	.0	.0	251	.1	2.9
2	.0	.0	.0	.3	1.0	1.8	2.0	1.2	.2	.0	.0	532	.4	6.0
1	.0	.0	.1	.3	1.1	2.0	2.0	1.0	.1	.0	.0	545	.3	6.2
0	.0	*	.1	.8	2.2	2.9	3.3	1.2	.1	.0	.0	888	.3	10.3
-1	.0	*	.2	1.0	2.7	2.2	2.9	.9	*	.0	.0	846	.2	9.8
-2	.0	.1	.3	2.1	2.7	3.2	3.0	.6	.0	.0	.0	1010	.2	11.8
-3	*	*	.3	1.6	2.9	2.4	1.8	.2	.0	.0	.0	779	.2	9.0
-4	*	*	.5	2.5	2.4	2.4	1.7	.1	.0	.0	.0	818	.1	9.5
-5	*	.1	1.0	2.7	2.0	1.6	.8	*	*	.0	.0	703	.1	8.1
-6	.0	.1	.8	1.9	1.4	1.1	.3	*	.0	.0	.0	494	*	5.6
-7/-8	.0	.3	1.6	2.7	1.5	.9	.2	*	.0	.0	.0	624	.1	7.1
-9/-10	*	.4	1.2	1.2	.6	.2	*	.0	.0	.0	.0	314	*	3.6
-11/-13	*	.4	.5	.4	.1	*	.0	.0	.0	.0	.0	129	*	1.5
-14/-16	.1	.1	.1	.1	*	.0	.0	.0	.0	.0	.0	32	.0	.4
-17/-19	.0	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	6	.0	.1
TOTAL												8484		
PCT	.2	1.6	6.7	17.8	21.3	22.6	20.8	7.8	1.1	.1	*	100.0	2.2	97.8

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	1.0	.1	.0	.0	.0	1.6	.3	.9	.1	.0	.0	.0	1.2
1-2	.1	3.0	1.8	.0	.0	.0	4.9	.1	2.8	1.1	.0	.0	.0	4.0
3-4	.1	1.6	3.7	.3	.0	.0	5.6	*	1.5	2.5	*	.0	.0	4.1
5-6	.0	.2	2.1	.5	*	.0	2.9	.0	.2	1.7	.2	.0	.0	2.1
7	.0	.1	.8	.3	.0	.0	1.1	.0	*	.5	.1	.0	.0	.6
8-9	.0	*	.2	.1	.0	.0	.3	.0	.0	.1	.2	.0	.0	.2
10-11	.0	.0	*	*	*	.0	.1	.0	.0	*	*	.0	.0	*
12	.0	.0	*	.1	*	.0	.1	.0	.0	*	*	.0	.0	*
13-16	.0	.0	.1	*	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	5.9	8.7	1.3	.1	.0	16.7	.4	9.5	5.9	.6	.0	.0	12.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.9	.0	.0	.0	.0	1.2	.1	.9	*	.0	.0	.0	1.1
1-2	.1	2.6	.4	.0	.0	.0	3.1	.2	2.0	.6	.0	.0	.0	2.8
3-4	*	1.4	1.0	*	.0	.0	2.4	*	1.6	2.3	.1	.0	.0	4.1
5-6	.0	.1	.6	.1	.0	.0	.7	.0	.3	1.8	.3	.0	.0	2.4
7	.0	*	.2	*	.0	.0	.3	.0	*	.5	.4	*	.0	1.0
8-9	.0	.0	.1	.1	.0	.0	.2	.0	.0	.1	.1	*	.0	.2
10-11	.0	.0	*	.1	.0	.0	.1	.0	.0	*	.1	*	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.0	*	.0	*	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	*	.0	*
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
23-25	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.0	2.3	.3	.1	.0	8.1	.3	4.9	5.3	1.2	.2	.0	12.0

PERIOD: (OVER-ALL) 1963-1973

ANNUAL

AREA 0006 COFFS HARBOUR
30.35 153.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.6	.1	.0	.0	.0	.9	.1	.9	.1	.0	.0	.0	1.2
1-2	.1	2.5	1.4	.0	.0	.0	4.0	.1	2.6	1.2	.0	.0	.0	4.0
3-4	*	1.8	4.2	.5	.0	.0	6.6	.1	1.6	2.6	.3	.0	.0	4.6
5-6	.0	.5	3.3	1.4	.1	.0	5.2	.0	.2	1.7	.7	*	.0	2.6
7	.0	.1	1.0	1.0	.1	.0	2.1	.0	.1	.6	1.0	.1	.0	1.7
8-9	.0	*	.3	.4	.1	.0	.8	.0	*	.2	.2	.0	.0	.4
10-11	.0	.0	.1	.3	.2	.0	.6	.0	.0	.1	.3	.1	.0	.5
12	.0	.0	*	.2	.1	.0	.3	.0	.0	*	.1	*	.0	.1
13-16	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.1	.1	.0	.2
17-19	.0	.0	.0	.1	.1	.0	.1	.0	.0	.0	.1	*	.0	.1
20-22	.0	.0	.0	*	*	.0	.1	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	*	*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.4	10.5	4.0	.8	.1	21.1	.3	5.5	6.6	2.6	.3	*	15.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.8	.1	.0	.0	.0	1.2	.2	.5	*	.0	.0	.0	.7	
1-2	.1	2.1	.6	.0	.0	.0	2.8	*	2.1	.5	.0	.0	.0	2.6	
3-4	.0	.6	.7	*	.0	.0	1.4	.0	.6	.8	*	.0	.0	1.4	
5-6	.0	.2	.5	.1	*	.0	.8	.0	*	.5	*	.0	.0	.6	
7	.0	.0	.1	.2	*	.0	.3	.0	*	*	.1	*	.0	.1	
8-9	.0	.0	.1	*	.0	.0	.1	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
12	*	.0	.0	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	.0	.0	*	
17-19	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
23-25	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.1	.1	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	3.7	2.0	.3	.2	.1	6.7	.2	3.3	2.0	.1	*	.1	5.7	98.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.7	6.5	.4	.0	.0	.0	11.6	
1-2	1.1	19.8	7.4	.0	.0	.0	28.3	
3-4	.3	10.6	17.6	1.3	.0	.0	29.9	
5-6	.0	1.7	12.0	3.2	.2	.0	17.1	
7	.0	.3	3.6	3.0	.2	.0	7.1	
8-9	.0	.1	1.0	1.1	.1	.0	2.3	
10-11	.0	.0	.4	.8	.3	.0	1.5	
12	*	.0	.1	.3	.2	.0	.6	
13-16	.0	.0	.1	.3	.3	.0	.7	
17-19	.0	.0	.0	.1	.2	.0	.4	
20-22	.0	.0	.0	*	*	*	.1	
23-25	.0	.0	.0	.0	*	.1	.1	
26-32	.0	.0	.0	.0	.2	.2	.4	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.1	38.9	42.6	10.2	1.8	.3	100.0	2998

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	8.0	12.3	6.6	3.0	.7	.5	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1216	4
6-7	.0	.9	8.1	10.7	7.2	3.0	1.4	.8	.8	.3	*	*	.0	.0	.0	.0	.0	.0	.0	1225	6
8-9	.0	.4	2.6	3.8	5.3	3.3	1.7	.6	.7	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	702	7
10-11	.0	.1	.5	1.1	1.4	1.2	.7	.7	.3	.1	.1	*	.2	.0	.0	.0	.0	.0	.0	234	9
12-13	.0	.0	.2	.3	.4	.2	.2	.3	.3	.1	.1	.0	*	.0	.0	.0	.0	.0	.0	81	9
>13	.0	.0	.0	.1	.1	.1	.1	.1	.2	*	.1	*	.1	.0	.0	.0	.0	.0	.0	40	13
INDET	1.1	.6	1.1	1.2	.5	.1	.2	.1	.1	*	*	.0	*	.0	.0	.0	.0	.0	.0	188	4
TOTAL																				3687	6
PCT	2.6	10.1	24.8	23.8	18.0	8.7	4.8	2.9	2.6	.8	.4	.2	.5	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1908-1973
(OVER-ALL) 1855-1973

TABLE 20

AREA 0006 COFFS HARBOUR
30.35 153.3E

SEA TMP DEG F	PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH												ANN	PCT
	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC		
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	.0
83/84	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.1	10	.1
81/82	1.8	3.2	1.5	.2	.0	.0	.0	.0	.0	.0	.1	.5	83	.6
79/80	5.6	11.4	9.2	2.7	.1	.0	.0	.0	.0	.3	.4	1.7	386	2.6
77/78	19.0	27.3	24.1	11.0	1.5	.2	.0	.0	.1	.2	1.6	8.6	1099	7.7
75/76	30.1	28.4	33.3	24.0	6.4	.9	.5	.1	.3	1.1	5.7	18.4	1769	12.4
73/74	25.3	16.4	18.9	28.4	21.0	3.2	.7	.5	.9	6.1	14.3	29.0	1960	13.7
71/72	11.3	7.7	6.9	19.6	25.6	13.6	3.7	2.8	6.0	14.5	23.3	21.5	1869	13.1
69/70	4.0	3.4	3.7	8.6	23.3	29.3	15.3	10.1	15.1	25.3	27.2	12.4	2121	14.9
67/68	1.0	.7	1.4	5.0	15.1	24.7	28.4	29.8	29.8	27.3	15.4	8.2	2792	14.7
65/66	.7	.2	.3	1.7	5.7	14.6	26.4	28.1	26.4	15.5	7.8	1.7	1534	10.7
63/64	.2	.7	.2	.7	2.3	7.3	16.5	22.1	16.3	6.9	2.2	.4	902	6.3
61/62	.2	.2	.2	.1	.7	3.3	6.1	7.0	3.4	1.6	.3	.1	277	1.9
59/60	.0	.0	.0	.0	.2	1.9	1.0	3.1	1.1	.4	.2	.1	97	.7
57/58	.0	.0	.0	.0	.1	.5	.4	1.8	.3	.7	.2	.0	48	.3
55/56	.0	.0	.0	.0	.1	.4	.4	.5	.3	.2	.2	.0	24	.2
53/54	.0	.0	.0	.0	.0	.0	.1	.2	.2	.0	.0	.0	6	.1
51/52	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
49/50	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	1192	1074	1254	1246	1288	1293	1170	1219	1175	1070	1160	1120	14261	100.0
MEAN	74.7	75.6	75.3	73.4	70.6	67.9	66.3	65.4	66.3	68.2	70.2	72.8	70.5	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1014	1012	1012	1010	1014	1011	1012	1011	1012	766
FEB	1014	1013	1012	1013	1013	1014	1012	1013	1013	821
MAR	1017	1015	1015	1015	1016	1015	1015	1016	1015	791
APR	1018	1017	1016	1016	1018	1016	1015	1017	1017	880
MAY	1020	1019	1017	1019	1018	1018	1018	1018	1018	816
JUN	1021	1018	1017	1017	1018	1018	1019	1019	1018	790
JUL	1019	1019	1017	1019	1019	1019	1018	1020	1018	730
AUG	1019	1019	1017	1017	1018	1018	1017	1018	1018	737
SEP	1020	1017	1016	1017	1017	1018	1016	1017	1017	704
OCT	1018	1016	1015	1015	1017	1016	1016	1016	1016	694
NOV	1014	1013	1013	1012	1015	1013	1013	1014	1014	697
DEC	1013	1012	1011	1012	1013	1012	1012	1012	1012	661
ANN	1017	1016	1015	1015	1016	1016	1015	1016	1016	9087
OBS	1333	1344	1784	792	824	650	1364	996		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	991	997	1004	1008	1012	1016	1020	1024	1028
FEB	996	1000	1004	1009	1013	1017	1021	1024	1028
MAR	996	1003	1007	1012	1016	1019	1023	1026	1028
APR	1001	1002	1007	1013	1017	1021	1025	1028	1033
MAY	1002	1004	1008	1013	1019	1023	1027	1030	1032
JUN	995	1000	1007	1014	1019	1023	1029	1032	1033
JUL	995	1003	1007	1014	1019	1023	1027	1030	1033
AUG	992	997	1006	1014	1018	1022	1028	1032	1037
SEP	986	998	1005	1013	1018	1022	1027	1030	1033
OCT	996	1000	1004	1012	1016	1020	1025	1028	1033
NOV	992	1000	1004	1009	1014	1017	1023	1027	1031
DEC	994	999	1003	1009	1012	1016	1020	1023	1025

PERIOD: (PRIMARY) 1899-1973
(OVER-ALL) 1856-1973

JANUARY

AREA 0007 SYDNEY
33.25 152.0E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG DUST	
N	2.4	1.9	.9	.0	.0	.0	.0	5.1	.3	3.1	6.4	.0	4.9	.0	81.0
NE	2.8	2.0	1.1	.0	.0	.0	.0	6.0	.2	2.4	7.6	.0	2.5	.0	82.1
E	3.5	2.2	.7	.0	.0	.0	.0	6.0	.4	2.1	6.3	.0	1.4	.0	84.4
SE	4.1	6.8	1.0	.0	.0	.0	.0	11.8	.5	1.8	8.0	.0	1.1	.0	77.0
S	5.7	4.7	2.2	.0	.0	.0	.0	12.4	1.2	3.6	5.0	.0	.6	.0	78.6
SW	4.4	3.6	2.8	.0	.0	.0	.0	10.8	.2	3.1	6.9	.0	2.0	.0	79.2
W	3.2	.0	1.9	.0	.0	.0	.0	5.1	1.3	1.9	2.5	.0	3.2	.0	87.9
NW	1.4	1.4	3.2	.0	.0	.0	.0	6.1	1.4	2.2	2.9	.0	2.5	.0	84.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	5.1	.0	.0	.0	.0	.0	2.1	.0	2.1	.0	.0	.0	.0	95.7
TOT PCT	3.6	3.3	1.4	.0	.0	.0	.0	8.2	.5	2.6	6.3	.0	2.1	.0	81.2
TOT OBS:	2277														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG DUST	
00003	1.9	1.9	1.5	.0	.0	.0	.0	5.2	.2	.2	5.6	.0	2.8	.0	86.1
06009	3.9	3.5	1.0	.0	.0	.0	.0	8.5	.4	3.0	7.6	.0	2.8	.0	79.4
12015	5.7	3.0	1.3	.0	.0	.0	.0	9.9	1.0	7.2	4.4	.0	.8	.0	78.7
18021	3.8	3.8	1.4	.0	.0	.0	.0	9.0	.4	1.2	6.7	.0	1.6	.0	81.3
TOT PCT	3.9	3.2	1.3	.0	.0	.0	.0	8.3	.5	2.9	6.3	.0	2.0	.0	81.1
TOT OBS:	2484														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.2	5.6	5.6	1.5	.1	.0		14.1	12.1		18.1	15.0	9.7	12.8	13.6	14.9	15.9	15.8
NE	2.4	11.2	9.2	1.0	*	.0		23.8	10.4		17.0	20.8	31.5	30.6	25.9	25.4	17.9	16.8
E	1.5	7.0	3.2	.2	.0	*		11.9	8.8		10.9	11.7	18.5	12.6	12.4	11.3	9.8	6.8
SE	1.4	8.9	5.0	1.0	.1	.0		16.3	10.4		13.2	16.0	18.0	17.3	14.8	18.4	16.1	13.6
S	1.5	7.2	6.9	2.2	.2	*		18.1	12.6		21.9	18.0	14.4	15.0	23.3	17.4	20.6	19.8
SW	1.0	2.7	2.5	.6	.1	*		7.0	11.6		10.3	6.8	3.4	5.3	3.8	5.2	10.8	11.4
W	1.1	1.4	.7	.1	*	.0		3.3	8.0		1.3	4.6	1.9	2.4	1.4	4.1	2.7	6.2
NW	.5	1.6	1.1	.2	*	.0		3.3	10.3		5.8	3.9	2.0	1.1	3.9	2.2	4.1	5.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0		1.4	3.4	.7	2.9	.9	1.0	2.1	3.7
TOT OBS	396	1412	1060	212	21	3	3104		10.6		138	525	451	511	222	402	481	374
TOT PCT	12.8	45.5	34.1	6.8	.7	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	3.4	7.2	3.0	.5	*				14.1	12.1	15.6	11.3
NE	6.7	13.2	3.7	.2	*				23.8	10.4	20.0	31.0
E	4.9	6.1	.9	*	*				11.9	8.8	11.5	15.3
SE	5.0	8.7	2.2	.4	*				16.3	10.4	15.4	17.6
S	4.3	8.6	4.3	.8	*				18.1	12.6	18.8	14.7
SW	2.2	2.8	1.6	.3	*				7.0	11.6	7.5	4.4
W	1.8	1.0	.4	.1	.0				3.3	8.0	3.9	2.2
NW	1.1	1.6	.5	.1	.0				3.3	10.3	4.3	1.5
VAR	.0	.0	.0	.0	.0				.0	.0	.0	.0
CALM	2.2								2.2	.0	3.0	1.9
TOT OBS	985	1530	511	71	7	3104			10.6		663	962
TOT PCT	31.7	49.3	16.5	2.3	.2				100.0		100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	3.0	10.3	48.3	30.0	7.5	.9	.0	10.4	100.0	663
06009	1.9	8.6	44.8	37.8	6.2	.5	.1	10.9	100.0	962
12015	1.0	8.2	41.3	40.7	7.5	1.1	.2	11.8	100.0	624
18021	2.8	14.7	47.1	28.4	6.4	.4	.1	9.7	100.0	853
TOT	68	328	1412	1060	212	21	3	10.6		3104
PCT	2.2	10.6	45.5	34.1	6.8	.7	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.7	3.2	3.1	2.0		3.2
NE	13.2	4.2	3.8	1.1		2.6
E	4.1	3.4	3.2	2.1		3.9
SE	4.0	3.2	3.5	4.0		4.7
S	3.6	4.4	6.7	5.6		5.2
SW	2.3	1.1	2.1	.8		3.9
W	.9	.5	.1	.2		3.2
NW	1.2	.7	1.4	1.0		4.6
VAR	.0	.0	.0	.0		.0
CALM	.9	.0	.2	.4		3.0
TOT OBS	216	118	138	98	570	3.9
TOT PCT	37.9	20.7	24.2	17.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.0	.8	1.8	.7	.2	.4	.0	.0	12.2	
NE	.0	.0	.2	.2	1.9	1.2	.2	.0	.0	.0	18.6	
E	.0	.0	.0	.5	1.3	1.4	.7	.0	.0	.0	8.9	
SE	.0	.2	.0	.8	3.5	1.1	.3	.2	.0	.0	8.7	
S	.0	.0	.5	2.5	4.4	2.1	.6	.0	.0	.0	10.3	
SW	.0	.0	.2	.1	.8	.5	.0	.0	.0	.0	4.7	
W	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	1.6	
NW	.0	.0	.0	.2	.9	.3	.4	.2	.0	.0	2.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.2	.0	.4	.0	.0	.0	.0	.0	.9	
TOT OBS	0	1	7	29	85	42	13	4	0	1	388	570
TOT PCT	.0	.2	1.2	5.1	14.9	7.4	2.3	.7	.0	.2	68.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.0	.2	.2	.2	.2	.2	.2	.2
= OR >5000	.7	.9	.9	.9	.9	.9	.9	.9
= OR >3500	3.0	3.1	3.1	3.1	3.1	3.1	3.1	3.1
= OR >2000	9.6	10.1	10.3	10.3	10.5	10.5	10.5	10.5
= OR >1000	21.3	25.1	25.5	25.5	25.7	25.7	25.7	25.7
= OR >600	24.4	30.2	30.5	30.5	30.7	30.7	30.7	30.7
= OR >300	25.0	31.2	31.8	31.8	31.9	31.9	31.9	31.9
= OR >150	25.0	31.4	31.9	31.9	32.1	32.1	32.1	32.1
= OR >0	25.0	31.4	31.9	31.9	32.1	32.1	32.1	32.1
TOTAL	143	180	183	183	184	184	184	184

TOTAL NUMBER OF OBS: 573

PCT FREQ NH <5/8: 67.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	14.3	17.1	14.4	11.6	9.3	5.4	6.2	7.8	13.8	.0	644

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	NO PCP	*	.0	*	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	*	.0	*	*	*	.0	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	.0	.0	*	.1	*	.0	*	.0	.0	.2	
	NO PCP	.5	1.6	.6	.6	.6	.5	.1	*	.0	.0	4.5	
	TOT %	.5	1.6	.6	.6	.7	.5	.1	.1	.0	.0	4.7	
1<2	PCP	.0	*	.0	.1	*	.0	.0	.0	.0	.0	.2	
	NO PCP	.3	.3	.1	.1	.1	*	.1	.1	.0	.0	1.0	
	TOT %	.3	.4	.1	.2	.1	*	.1	.1	.0	.0	1.2	
2<5	PCP	.1	*	.1	.0	*	.0	*	.0	.0	.0	.4	
	NO PCP	*	.1	.1	.2	.1	*	.1	.0	.0	.0	.7	
	TOT %	.2	.1	.2	.2	.1	*	.1	.0	.0	.0	1.0	
5<10	PCP	.4	1.1	.5	1.6	1.8	.5	.1	.1	.0	*	6.1	
	NO PCP	4.7	10.1	5.2	7.2	8.8	2.6	1.5	1.3	.0	.5	41.9	
	TOT %	5.1	11.2	5.8	8.7	10.5	3.1	1.7	1.4	.0	.5	48.0	
10+	PCP	.2	.3	.1	.1	.4	.2	.0	.1	.0	.0	1.4	
	NO PCP	7.2	10.7	5.5	5.7	6.9	3.1	1.5	1.5	.0	1.5	43.6	
	TOT %	7.4	11.0	5.6	5.8	7.3	3.3	1.5	1.5	.0	1.5	45.0	
TOT OBS		2277											
TOT PCT		13.5	24.3	12.2	15.6	18.8	7.0	3.5	3.0	.0	2.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	11-21	.0	.0	*	*	*	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.0	*	*	*	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	.1	.1	.1	.2	.2	.1	*	*	.0	.0	.8	
	4-10	.1	.7	.4	.4	.1	.1	.1	.1	.0	.0	1.9	
	11-21	.1	.5	.1	.0	.3	.1	.0	.0	.0	.0	1.0	
	22+	.1	.1	.0	*	.2	.1	*	.0	.0	.0	.6	
	TOT %	.4	1.5	.5	.6	.7	.4	.1	.1	.0	.0	4.3	
1<2	0-3	.0	*	.0	*	*	.0	.0	*	.0	.0	.1	
	4-10	.1	.2	.1	.1	*	*	*	.0	.0	.0	.6	
	11-21	.2	.2	.0	*	.1	*	.1	*	.0	.0	.7	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.3	.4	.1	.2	.1	.1	.2	.1	.0	.0	1.3	
2<5	0-3	.1	*	.0	.0	.0	.0	*	.0	.0	.0	.2	
	4-10	.1	*	.1	.2	.2	*	*	*	.0	.0	.6	
	11-21	.1	.2	.1	.2	.2	*	.0	.0	.0	.0	.9	
	22+	*	*	*	.0	.1	.1	*	.0	.0	.0	.3	
	TOT %	.3	.3	.3	.4	.5	.1	.1	*	.0	.0	2.0	
5<10	0-3	.5	1.6	1.0	.9	1.0	.5	.6	.4	.0	.6	7.1	
	4-10	2.0	5.7	3.3	4.4	4.4	.9	.6	.5	.0	.0	21.8	
	11-21	1.6	2.9	.9	2.3	2.9	1.0	.3	.4	.0	.0	12.3	
	22+	.7	.4	.2	.7	1.6	.4	.1	.1	.0	.0	4.2	
	TOT %	4.8	10.6	5.4	8.3	10.0	2.9	1.5	1.3	.0	.6	45.4	
10+	0-3	.5	.9	.5	.4	.4	.5	.7	.1	.0	1.6	5.6	
	4-10	2.7	4.6	3.2	3.7	2.7	1.4	.7	.8	.0	.0	19.8	
	11-21	3.5	5.3	2.0	2.3	3.8	1.4	.2	.6	.0	.0	19.0	
	22+	.8	.4	*	.3	.6	.1	*	.1	.0	.0	2.3	
	TOT %	7.5	11.2	5.6	6.8	7.4	3.4	1.6	1.6	.0	1.6	46.8	
TOT OBS		2538											
TOT PCT		13.4	23.9	11.9	16.3	18.7	6.9	3.6	3.1	.0	2.2	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	5.7	14.9	7.8	2.1	1.4	.0	.0	31.9	68.1	141
06009	.0	.0	.0	5.2	11.2	6.0	1.7	.9	.0	.9	23.9	74.1	116
12015	.0	.5	2.4	4.2	17.9	7.1	2.4	.5	.0	.0	34.9	65.1	212
18021	.0	.0	1.4	4.1	10.3	6.8	2.1	.0	.0	.0	24.7	75.3	146
TOT	0	1	7	29	87	43	13	4	0	1	185	430	615
PCT	.0	.2	1.1	4.7	14.1	7.0	2.1	.7	.0	.2	30.1	69.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.2	4.2	.8	1.5	44.3	49.1	481
06009	.2	5.1	1.7	2.0	53.5	37.5	865
12015	.0	2.6	.9	1.7	42.0	52.9	586
18021	.1	5.0	1.6	2.3	50.2	40.7	813
TOT	4	120	37	53	1330	1201	2745
PCT	.1	4.4	1.3	1.9	48.5	43.8	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	6.9	26.9	66.2	130
06009	.0	.0	6.9	23.5	69.6	102
12015	.0	2.9	7.2	28.2	64.6	209
18021	.0	2.3	7.6	19.7	72.7	132
TOT	0	9	41	144	388	573
PCT	.0	1.6	7.2	25.1	67.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
90/94	.0	.0	.1	.1	.0	.1	.0	.0	3	.3
85/89	.0	.0	.2	.3	.1	.1	.3	.1	11	1.0
80/84	.0	.0	.0	.3	1.3	.8	.3	.3	35	3.0
75/79	.0	.2	.3	.9	1.8	6.2	7.6	4.5	246	21.4
70/74	.0	.1	.3	1.7	7.0	12.2	13.1	12.9	542	47.2
65/69	.0	.0	.2	1.1	6.6	7.7	6.8	2.8	290	25.2
60/64	.0	.0	.0	.4	.3	.2	.7	.1	20	1.7
55/59	.0	.0	.0	.0	.0	.0	.1	.1	2	.2
TOTAL	0	3	12	55	197	313	330	239	1149	100.0
PCT	.0	.3	1.0	4.8	17.1	27.2	28.7	20.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	.0	.1	.0	.0	.1
.2	.3	.0	.0	.0	.0	.3	.1	.0	.2
.8	.7	.2	.1	.2	.2	.1	.3	.0	.5
5.5	7.0	2.1	1.4	1.5	.8	1.0	1.4	.0	.8
7.6	12.1	6.3	6.7	6.9	2.9	1.5	1.5	.0	1.7
1.4	1.8	2.5	5.9	8.7	3.7	.8	.1	.0	.3
.1	.8	.8	.3	.7	.4	.1	.0	.0	.1
.0	.0	.0	.0	.1	.0	.1	.0	.0	.0
15.6	21.9	11.2	14.4	18.1	8.0	3.9	3.4	.0	3.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	85	81	73	67	64	63	73.5	665
06009	90	82	79	73	67	65	60	72.7	943
12015	85	78	75	71	66	63	59	70.7	661
18021	92	80	77	70	65	62	58	70.4	946
TOT	92	82	79	72	66	63	58	71.8	3255

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	12.7	23.2	25.7	24.9	13.5	75	237
06009	.0	6.1	16.8	29.4	29.7	18.0	78	327
12015	.0	2.4	17.0	25.3	28.1	27.1	80	288
18021	.0	4.6	13.2	27.6	31.3	23.3	80	326
TOT	0	72	202	320	339	245	78	1178

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TABLE 17

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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	89 92	TOT	W FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.1	.0	.0	.1	2	.0	.1
11/13	.0	.0	.0	.1	.4	.1	.2	.1	.0	15	.0	.8
9/10	.0	.0	.0	.4	.2	.3	.3	.1	.0	24	.0	1.2
7/8	.0	.0	.1	.1	.4	1.1	.3	.1	.0	38	.2	1.8
6	.0	.0	.1	.0	.4	.8	.2	.0	.0	29	.2	1.3
5	.0	.0	.1	.3	1.3	1.1	.0	.0	.0	52	.3	2.3
4	.0	.0	.1	.5	2.1	.7	.0	.0	.0	65	.5	2.8
3	.0	.0	.2	.7	3.0	.6	.1	.0	.0	89	.5	4.1
2	.0	.0	.2	2.9	4.1	.9	.2	.0	.0	163	.6	7.7
1	.0	.0	.5	5.0	4.7	.6	.0	.0	.0	212	1.1	9.6
0	.0	.1	1.5	7.9	4.2	1.2	.0	.0	.0	292	1.0	13.8
-1	.0	.1	1.6	6.9	2.6	.3	.0	.0	.0	226	.6	10.9
-2	.1	.1	4.0	5.9	2.5	.2	.0	.0	.0	249	1.0	11.6
-3	.0	.1	3.8	3.8	.7	.1	.0	.0	.0	165	.5	7.9
-4	.0	.2	3.3	2.5	.9	.0	.0	.0	.0	135	.7	6.2
-5	.0	.4	2.3	1.3	.4	.0	.0	.0	.0	86	.2	4.2
-6	.1	.4	1.2	.9	.3	.0	.0	.0	.0	55	.2	2.6
-7/-8	.1	.3	1.0	1.1	.1	.0	.0	.0	.0	47	.1	2.3
-9/-10	.0	.3	.4	.2	.0	.0	.0	.0	.0	17	.0	.9
-11/-13	.1	.1	.3	.1	.0	.0	.0	.0	.0	8	.0	.4
TOTAL	4	35	799	552	154	3	1	1969	7.3	92.7		
PCT	.2	1.8	20.3	40.6	28.0	7.8	1.1	.2	.1	100.0	7.3	92.7

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.0	.0	.0	.0	.8	.6	1.5	.0	.0	.0	.0	2.1
1-2	.0	1.6	1.3	.0	.0	.0	2.9	.0	3.0	2.3	.0	.0	.0	5.3
3-4	.0	1.8	2.7	.4	.0	.0	4.9	.0	2.0	6.4	.1	.0	.0	8.5
5-6	.0	.7	2.7	.4	.0	.0	3.8	.0	.7	2.3	.1	.0	.0	3.1
7	.0	.0	1.1	.4	.0	.0	1.5	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.5	.7	.0	.0	1.2	.0	.0	.0	.6	.0	.0	.6
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.7	8.3	2.7	.0	.0	15.9	.6	7.3	11.9	.7	.0	.0	20.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.3	.5	.0	.0	.0	.0	.8
1-2	.5	3.4	.8	.0	.0	.0	4.7	.0	3.0	.5	.0	.0	.0	3.5
3-4	.0	2.3	3.2	.2	.0	.0	5.7	.0	2.3	4.1	.0	.0	.0	6.3
5-6	.0	.2	2.0	.0	.0	.0	2.2	.0	.5	2.2	.1	.0	.0	2.8
7	.0	.0	.4	.0	.0	.0	.4	.0	.2	.4	.2	.0	.0	.9
8-9	.0	.2	.0	.0	.0	.0	.2	.0	.0	.2	.4	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	6.8	6.4	.2	.0	.0	14.0	.3	6.3	7.5	.7	.0	.0	13.1

PERIOD: (OVER-ALL) 1963-1973

JANUARY

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93.25 152.0E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	1.8	.0	.0	.0	.0		1.8	.0	.2	.0	.0	.0	.0		1.4
1-2	.2	2.8	.4	.0	.0	.0		3.5	.2	.8	.3	.0	.0	.0		2.4
3-4	.0	2.3	5.9	.0	.0	.0		8.3	.0	1.2	1.2	.0	.0	.0		.3
5-6	.0	.2	2.3	1.2	.0	.0		3.9	.0	.0	.3	.0	.0	.0		.4
7	.0	.0	1.3	1.7	.0	.0		2.2	.0	.0	.3	.1	.0	.0		1.2
8-9	.0	.0	.2	1.0	.2	.0		1.5	.0	.2	1.0	.0	.0	.0		.5
10-11	.0	.0	.0	.5	.0	.0		.5	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.2	.2	.0	.0		.0
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.4	7.0	10.6	3.4	.2	.0		21.7	.2	2.3	3.3	.3	.0	.0		6.4

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	.4	.0	.0	.0	.0		.6	.1	.1	.0	.0	.0	.0		.2	
1-2	.0	.0	.0	.0	.0	.0		.0	.0	1.0	.2	.0	.0	.0		1.3	
3-4	.0	.0	.2	.0	.0	.0		.2	.0	.1	1.2	.0	.0	.0		1.2	
5-6	.0	.2	.0	.0	.0	.0		.2	.0	.1	.7	.0	.0	.0		.7	
7	.0	.0	.2	.0	.0	.0		.5	.0	.0	.6	.1	.0	.0		.7	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.2	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.2	.7	.4	.2	.0	.0		1.5	.1	1.3	2.7	.1	.0	.0		4.1	99.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.7	5.6	.0	.0	.0	.0	8.3	
1-2	1.2	15.4	5.9	.0	.0	.0	22.5	
3-4	.0	12.5	24.7	.7	.0	.0	37.9	
5-6	.0	2.7	12.5	1.7	.0	.0	16.9	
7	.0	.2	5.4	1.7	.0	.0	7.3	
8-9	.0	.5	2.0	2.7	.2	.0	5.4	
10-11	.0	.0	.0	1.0	.0	.0	1.0	
12	.0	.0	.2	.5	.0	.0	.7	
13-16	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.9	36.9	50.6	8.3	.2	.0	100.0	409

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.8	7.8	14.4	7.2	2.4	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	172	3
6-7	.0	.8	10.0	12.6	6.8	4.6	2.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	187	5
8-9	.0	.6	1.6	2.2	4.6	2.2	2.4	.4	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	75	7
10-11	.0	.4	.6	1.2	.2	1.6	.4	.4	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	6
12-13	.0	.0	.4	.2	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	10
>13	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	4
INDET	.4	.4	2.2	2.4	.4	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	5
TOTAL	11	50	146	129	75	47	29	5	7	1	0	0	0	0	0	0	0	0	0	500	
PCT	2.2	10.0	29.2	25.8	15.0	9.4	5.8	1.0	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

FEBRUARY

PERIOD: (PRIMARY) 1910-1973
(OVER-ALL) 1856-1973

AREA 0007 SYDNEY
33.3S 152.1E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.6	1.3	.4	.0	.0	.0	.0	4.3	.6	4.7	6.3	.0	1.5	.3	83.5
NE	3.8	3.3	1.0	.0	.0	.0	.0	8.1	.5	1.3	4.4	.0	1.9	.0	83.8
E	3.7	3.2	1.6	.0	.0	.0	.0	8.4	1.0	1.8	1.8	.0	.5	.0	86.8
SE	5.7	7.6	1.8	.0	.0	.0	.0	15.1	.4	.8	3.3	.0	2.1	.0	78.2
S	5.3	4.1	1.9	.0	.0	.0	.0	11.3	.7	1.5	2.2	.0	1.3	.0	83.0
SW	3.8	2.1	.0	.0	.0	.0	.0	5.9	1.3	3.6	6.2	.0	2.3	.0	82.0
W	9.1	.0	3.0	.0	.0	.0	.0	12.2	5.1	4.6	3.0	.0	5.1	.0	71.1
NW	1.3	3.2	1.9	.0	.0	.0	.0	6.4	.5	5.3	3.2	.0	2.1	.0	82.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	.0	.0	.0	.0	95.2
TOT PCT	4.1	3.7	1.3	.0	.0	.0	.0	9.1	.8	2.3	3.9	.0	1.7	*	82.7
TOT OBS:	2097														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST SNOW	NO SIG WEA
00603	3.7	2.8	1.2	.0	.0	.0	.0	7.7	.5	.2	3.5	.0	1.4	.0		87.0
06609	4.7	4.1	.9	.0	.0	.0	.0	9.8	.3	1.3	4.4	.0	2.2	.1		82.7
12615	3.3	2.5	.9	.0	.0	.0	.0	6.7	1.6	5.1	4.0	.0	1.3	.0		81.9
18621	4.7	4.3	2.1	.0	.0	.0	.0	11.1	.8	2.7	4.3	.0	1.8	.0		79.8
TOT PCT	4.2	3.6	1.3	.0	.0	.0	.0	9.1	.7	2.3	4.1	.0	1.7	*		82.5
TOT OBS:	2176															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.2	6.1	6.0	1.1	*	.0		14.3	11.5		17.0	11.0	11.2	13.2	11.9	18.3	18.8	15.3
NE	1.9	11.4	8.6	1.0	.1	.0		23.0	10.6		15.0	19.5	28.9	27.9	27.2	26.3	18.5	16.8
E	1.3	8.0	4.4	.6	.3	.0		14.5	10.5		16.9	14.8	16.6	13.9	17.1	13.0	14.9	10.8
SE	1.7	7.4	6.3	1.7	.2	.0		17.3	11.6		12.8	19.6	19.1	20.7	12.0	17.5	15.9	14.1
S	1.7	5.3	6.2	2.5	.3	.1		16.1	13.6		17.2	19.1	14.7	16.1	20.8	13.3	14.9	14.4
SW	1.1	3.0	1.8	.8	.1	.0		6.7	11.3		13.3	8.9	4.7	4.0	4.1	4.5	5.8	12.3
W	.4	1.2	.6	.1	*	.0		2.3	9.4		3.3	2.1	1.8	1.3	1.6	1.8	2.8	4.7
NW	1.1	2.0	.7	.3	*	.0		4.1	8.3		3.7	3.8	2.8	2.1	4.9	3.8	5.2	7.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.6							1.6	.0		.7	1.3	.2	.9	.5	1.5	3.2	4.0
TOT OBS	334	1236	968	226	29	2	2795		11.1		135	478	418	456	219	331	436	322
TOT PCT	11.9	44.2	34.6	8.1	1.0	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+					00	06	12	18
N	3.8	7.0	3.4	.2	.0		14.3	11.5		12.3	12.2	15.7	17.3
NE	6.2	12.9	3.7	.2	*		23.0	10.6		18.5	28.4	26.6	17.8
E	4.3	8.3	1.3	.5	.1		14.5	10.5		15.3	15.2	14.6	13.2
SE	5.0	8.3	3.2	.8	*		17.3	11.6		18.1	19.9	15.3	15.1
S	4.0	6.2	4.7	1.0	.2		16.1	13.6		18.7	15.4	16.3	14.7
SW	2.3	2.8	1.2	.4	*		6.7	11.3		9.9	4.3	4.4	8.6
W	1.1	.8	.4	*	.0		2.3	9.4		2.4	1.5	1.7	3.6
NW	2.0	1.6	.4	*	.0		4.1	8.3		3.8	2.4	4.2	6.1
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0
CALM	1.6						1.6	.0		1.1	.6	1.1	3.6
TOT OBS	447	1339	510	89	10	2795		11.1		613	874	550	758
TOT PCT	30.3	47.9	18.2	3.2	.4		100.0			100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.1	13.9	44.4	29.9	9.0	1.6	.2	11.0	100.0	613
06009	.6	8.6	44.6	38.2	7.0	.9	.1	11.4	100.0	874
12015	1.1	6.7	42.5	39.6	8.9	1.1	.0	12.1	100.0	550
18021	3.6	12.1	44.9	30.7	8.0	.7	.0	10.3	100.0	738
TOT	43	289	1236	968	226	29	2	11.1		2795
PCT	1.6	10.3	44.2	34.6	8.1	1.0	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.3	2.8	4.1	1.1		3.2
NE	11.4	2.6	4.6	2.2		3.0
E	5.6	3.6	5.0	2.3		4.0
SE	3.8	1.5	4.6	3.7		4.9
S	4.3	3.3	6.8	3.6		4.8
SW	1.5	2.4	2.8	.8		4.5
W	1.2	.8	.5	.3		3.5
NW	1.6	.7	.8	1.0		4.0
VAR	.0	.0	.0	.0		.0
CALM	.3	.3	.3	.7		4.4
TOT OBS	221	108	179	91	599	4.0
TOT PCT	36.9	18.0	29.9	15.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.1	.8	.8	.4	.4	.0	.0	.1	12.6	
.0	.0	.1	1.1	1.9	.8	.5	.3	.0	.2	16.0	
.0	.0	.3	1.3	2.0	1.1	.6	.1	.2	.0	11.0	
.0	.0	.2	.9	3.4	1.5	.5	.0	.2	.0	6.8	
.0	.2	.2	1.4	3.1	2.5	.9	.2	.0	.0	9.6	
.0	.0	.0	.6	1.1	.7	.3	.0	.0	.2	4.6	
.0	.0	.0	.0	.1	.5	.2	.0	.0	.0	2.3	
.0	.0	.2	.3	.5	.3	.2	.0	.0	.0	2.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.8	
.0	1	6	39	78	48	21	3	2	3	398	599
.0	.2	1.0	6.5	13.0	8.0	3.5	.5	.3	.5	66.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.7	.8	.8	.8	.8	.8	.8	.8
= OR >5000	1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >3500	4.1	4.8	4.8	4.8	4.8	4.8	4.8	4.8
= OR >2000	10.4	12.2	12.4	12.4	12.4	12.4	12.5	12.5
= OR >1000	21.8	25.4	25.7	25.7	25.7	25.7	25.9	25.9
= OR >600	25.4	31.4	32.2	32.2	32.2	32.2	32.3	32.3
= OR >300	25.7	32.3	33.3	33.3	33.3	33.3	33.5	33.5
= OR >150	25.9	32.5	33.5	33.5	33.5	33.5	33.7	33.7
= OR >0	25.9	32.5	33.5	33.5	33.5	33.5	33.7	33.7
TOTAL	197	197	203	203	203	203	204	204

TOTAL NUMBER OF OBS: 606

PCT FREQ NH <5/8: 66.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
12.9	16.3	16.0	11.2	8.6	6.8	9.3	9.0	9.8	.0	731

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.2	
	TOT %	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.3	
1/2<1	PCP	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.4	
	NO PCP	.3	.2	.2	.2	.3	.2	.0	.0	.0	.0	1.5	
	TOT %	.3	.4	.2	.3	.3	.2	.0	.0	.0	.0	1.9	
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.3	.3	.0	.3	.2	.0	.1	.1	.0	.0	1.3	
	TOT %	.3	.4	.0	.4	.2	.0	.1	.1	.0	.0	1.5	
2<5	PCP	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.3	
	NO PCP	.2	.1	.1	.1	.3	.0	.0	.0	.0	.0	.8	
	TOT %	.2	.1	.2	.2	.3	.1	.0	.0	.0	.0	1.1	
5<10	PCP	.5	1.2	.9	2.0	1.4	.2	.2	.2	.0	.0	6.8	
	NO PCP	9.7	8.6	5.2	5.6	9.0	2.1	.8	1.7	.0	.4	39.2	
	TOT %	6.3	9.8	6.2	7.7	6.4	2.3	1.1	1.9	.0	.4	42.0	
10+	PCP	.0	.3	.2	.3	.4	.1	.0	.0	.0	.0	1.4	
	NO PCP	7.2	11.8	7.6	8.0	8.8	4.4	1.1	2.4	.0	.6	51.8	
	TOT %	7.3	12.1	7.7	8.3	9.1	4.5	1.1	2.4	.0	.6	53.2	
TOT OBS													
TOT PCT													
		14.3	23.0	14.4	16.9	16.4	7.3	2.3	4.3	.0	1.0	100.0	2094

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.2	.1	.0	.0	.1	.0	.0	.0	.0	.5	
1/2<1	0-3	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.3	
	4-10	.1	.2	.1	.1	.1	.1	.0	.0	.0	.0	.6	
	11-21	.1	.2	.0	.2	.2	.1	.0	.0	.0	.0	.7	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.3	.4	.2	.3	.3	.3	.0	.0	.0	.0	1.8	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.2	.0	.2	.1	.0	.1	.1	.0	.0	.9	
	11-21	.1	.1	.0	.1	.1	.0	.1	.0	.0	.0	.5	
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.2	.4	.0	.4	.3	.0	.2	.1	.0	.0	1.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	.5	
	11-21	.1	.1	.0	.2	.2	.0	.0	.0	.0	.0	.7	
	22+	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.4	
	TOT %	.2	.2	.2	.3	.4	.1	.0	.0	.0	.0	1.5	
5<10	0-3	.4	.9	.7	.8	.9	.3	.2	.5	.0	.4	5.2	
	4-10	2.1	4.0	2.6	2.9	2.0	1.1	.5	.8	.0	.0	16.0	
	11-21	2.8	4.0	2.1	2.4	2.1	.6	.2	.3	.0	.0	14.4	
	22+	.6	.5	.5	1.1	1.2	.2	.1	.2	.0	.0	4.4	
	TOT %	5.9	9.4	5.8	7.2	6.2	2.2	1.0	1.8	.0	.4	39.9	
10+	0-3	.5	1.1	.6	1.0	.9	1.0	.2	.6	.0	.9	6.7	
	4-10	3.1	6.8	5.0	4.0	3.1	1.8	.5	1.2	.0	.0	25.4	
	11-21	3.3	4.6	2.4	3.3	3.6	1.0	.4	.4	.0	.0	19.2	
	22+	.3	.3	.0	.6	1.3	.6	.1	.1	.0	.0	3.4	
	TOT %	7.2	12.8	8.0	9.1	8.9	4.4	1.1	2.3	.0	.9	54.7	
TOT OBS													
TOT PCT													
		13.9	23.4	14.3	17.3	16.1	7.1	2.3	4.3	.0	1.3	100.0	2270

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	5.3	15.3	6.7	.7	.7	.7	1.3	30.7	69.3	150
06009	.0	.6	2.5	3.2	10.8	8.3	4.5	1.3	.0	.0	31.2	68.8	157
12015	.0	.0	.5	10.0	12.0	7.2	1.9	.0	.0	.0	31.6	68.4	209
18021	.0	.0	1.2	3.0	10.2	6.6	5.4	.0	.6	.6	27.7	72.3	166
TOT	0	1	7	39	82	49	21	3	2	3	207	475	682
PCT	.0	.1	1.0	5.7	12.0	7.2	3.1	.4	.3	.4	30.4	69.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.9	2.0	.9	1.3	34.6	60.3	448
06009	.3	2.0	2.4	1.6	48.3	45.5	752
12015	.4	1.3	1.3	1.3	34.8	61.0	480
18021	.7	2.1	1.6	1.9	40.9	52.7	670
TOT	13	44	39	37	959	1258	2350
PCT	.5	1.9	1.7	1.6	40.8	53.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.8	9.0	27.1	63.9	133
06009	.0	4.0	8.1	30.6	61.3	124
12015	.0	.5	11.7	21.4	66.8	196
18021	.0	1.3	6.3	24.8	68.6	153
TOT	0	9	55	154	397	606
PCT	.0	1.5	9.1	25.4	65.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.1	.3	.2	.1	.0	.1	9	.7
80/84	.0	.0	.0	.6	1.1	.5	.7	.5	45	3.4
75/79	.0	.0	.3	.9	3.2	7.8	8.0	6.5	349	26.7
70/74	.0	.0	.2	1.2	6.7	12.7	16.4	12.9	656	50.2
65/69	.0	.0	.2	1.1	3.3	5.0	4.7	3.1	226	17.3
60/64	.0	.0	.0	.0	.2	.1	1.0	.5	23	1.8
TOTAL	0	0	9	54	192	342	402	309	1308	100.0
PCT	.0	.0	.7	4.1	14.7	26.1	30.7	23.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.2	.2	.0	.1	.1	.1	.2	.0	.0
80/84	.7	.8	.6	.4	.2	.2	.1	.4	.0	.1
75/79	6.2	9.6	3.2	2.5	1.6	1.1	.4	1.8	.0	.3
70/74	7.1	12.2	7.4	7.9	8.6	3.7	1.2	1.4	.0	.8
65/69	.8	1.0	1.8	3.9	5.6	2.8	.4	.5	.0	.4
60/64	.0	.1	.0	.2	.8	.4	.3	.0	.0	.0
TOTAL	14.8	23.7	13.1	14.9	16.8	8.3	2.4	4.3	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	88	85	81	74	67	65	62	73.9	603
06009	90	83	79	73	67	63	58	73.2	871
12015	82	79	76	72	66	62	56	71.8	559
18021	88	80	76	71	65	61	57	71.1	779
TOT	90	82	79	72	66	62	56	72.5	2812

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	8.5	19.6	25.1	24.7	22.1	77	271
06009	.0	5.6	15.6	29.2	30.0	19.6	79	377
12015	.0	1.7	17.0	25.2	33.7	22.4	80	294
18021	.0	3.9	8.6	24.7	32.8	29.9	82	384
TOT	0	64	195	347	405	315	80	1326

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA	53	57	61	65	69	73	77	81	85	TOT	N	NO
TMP DIF	56	60	64	68	72	76	80	84	88		FOG	FOG
20/22	.0	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
14/16	.0	.0	.0	.0	.0	.1	.0	.0	.0	2	.1	.1
11/13	.0	.0	.0	.1	.1	.0	.0	.1	.1	6	.0	.4
9/10	.0	.0	.0	.1	.1	.1	.3	.2	.0	11	.0	.7
7/8	.0	.0	.0	.1	.3	.1	.9	.1	.0	22	.1	1.3
6	.0	.0	.0	.0	.1	.5	.3	.1	.0	16	.1	.9
5	.0	.0	.0	.1	.1	.6	.8	.1	.0	26	.2	1.4
4	.0	.0	.0	.1	.8	1.9	.9	.3	.0	63	.2	3.8
3	.0	.0	.0	.0	.6	2.3	.6	.1	.0	56	.4	3.1
2	.0	.0	.0	.0	2.0	5.8	1.9	.3	.0	160	.8	9.3
1	.0	.0	.0	.1	3.0	6.2	1.2	.0	.0	167	.6	9.9
0	.0	.0	.1	.8	6.5	7.5	1.4	.0	.0	260	1.2	15.2
-1	.0	.0	.0	.8	5.5	4.8	.5	.1	.0	187	.6	11.1
-2	.0	.0	.0	1.9	6.4	3.3	.2	.0	.0	188	.4	11.4
-3	.0	.0	.0	1.1	4.5	2.1	.3	.0	.0	126	.3	7.6
-4	.0	.0	.1	1.9	3.5	1.1	.1	.0	.0	107	.1	6.6
-5	.0	.0	.1	1.0	2.5	1.0	.3	.0	.0	79	.0	5.0
-6	.0	.0	.1	1.1	.8	.3	.0	.0	.0	36	.1	2.2
-7/-8	.0	.0	.2	.8	1.0	.3	.0	.0	.0	36	.0	2.3
-9/-10	.0	.1	.6	.6	.4	.1	.0	.0	.0	28	.0	1.8
-11/-13	.0	.1	.3	.2	.0	.0	.0	.0	.0	8	.0	.5
-14/-16	.0	.1	.1	.0	.0	.0	.0	.0	.0	4	.0	.3
-17/-19	.1	.0	.0	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	5	24	169	609	153	19	1	1590	81	1509	
PCT	.1	.3	1.5	10.6	38.3	38.3	9.6	1.2	.1	100.0	5.1	94.9

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.5	.0	.0	.0	.0	1.5	.0	1.3	.0	.0	.0	.0	1.3
1-2	.0	2.0	1.6	.0	.0	.0	3.5	.5	4.0	1.5	.0	.0	.0	6.0
3-4	.0	1.6	2.9	.0	.0	.0	4.5	.2	2.8	3.5	.0	.0	.0	6.6
5-6	.0	.2	2.1	.2	.0	.0	2.6	.0	.7	3.5	.3	.0	.0	4.5
7	.0	.2	.7	.2	.0	.0	1.1	.0	.5	1.6	.2	.0	.0	2.3
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2	.0	.0	.5
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.4	7.5	.6	.2	.0	13.7	.7	9.4	10.6	.8	.0	.0	21.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	1.3	.0	.0	.0	.0	1.5	.0	1.0	.0	.0	.0	.0	1.0
1-2	.2	4.5	1.6	.0	.0	.0	6.4	.0	1.6	2.1	.0	.0	.0	3.7
3-4	.0	2.6	3.4	.0	.0	.0	6.0	.0	1.1	4.0	.0	.0	.0	5.1
5-6	.0	.6	2.1	.0	.0	.0	2.8	.0	.8	3.3	.1	.0	.0	4.2
7	.0	.2	.4	.0	.0	.0	.6	.0	.0	1.3	.4	.0	.0	1.7
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.7	.0	.0	.8
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
13-16	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	9.2	8.1	.2	.0	.0	18.0	.0	4.5	10.8	1.5	.0	.0	16.8

PERIOD: (OVER-ALL) 1963-1973

FEBRUARY

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33.35 152.1E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S						PCT	SW						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.2	.0	.0	.0	.0	.5	.0	.2	.0	.0	.0	.0	.2
1-2	.2	1.6	.6	.0	.0	.0	2.4	.1	.9	.0	.0	.0	.0	.9
3-4	.0	1.1	2.6	.0	.0	.0	3.7	.0	.8	.8	.1	.0	.0	1.6
5-6	.2	.0	3.7	.3	.0	.0	4.2	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	2.0	1.5	.0	.0	3.5	.0	.0	.9	.3	.0	.0	1.4
8-9	.0	.0	.4	.7	.0	.0	1.1	.0	.0	.0	.3	.0	.0	.3
10-11	.2	.0	.2	.0	.2	.0	.6	.0	.0	.1	.0	.0	.0	.1
12	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.9	2.9	9.6	2.7	.9	.0	17.0	.1	1.9	2.8	1.1	.0	.0	5.8

HGT	W						PCT	NW						PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.5	.0	.0	.0	.0	.5	.0	.3	.0	.0	.0	.0	.3	
1-2	.0	.4	.0	.0	.0	.0	.4	.0	.8	.0	.0	.0	.0	.8	
3-4	.0	.3	.4	.2	.0	.0	.9	.0	.3	.3	.0	.0	.0	.8	
5-6	.0	.3	.5	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.5	
7	.0	.2	.0	.2	.0	.0	.3	.0	.1	.3	.2	.0	.0	.9	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.4	1.1	.3	.0	.0	2.8	.0	2.0	1.0	.3	.1	.0	3.4	98.8

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	1.8	6.2	.0	.0	.0	.0	8.1	
1-2	1.2	15.7	7.4	.0	.0	.0	24.2	
3-4	.2	10.6	18.0	.2	.0	.0	29.1	
5-6	.2	2.8	16.2	.9	.0	.0	20.1	
7	.0	1.2	7.4	3.2	.0	.0	11.8	
8-9	.0	.0	.9	1.8	.0	.0	2.8	
10-11	.2	.0	.5	.5	.2	.0	1.4	
12	.0	.0	.5	.0	.0	.0	.5	
13-16	.0	.0	.5	.7	.2	.0	1.4	
17-19	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.2	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.7	36.5	51.3	7.4	1.2	.0	100.0	433

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	8.4	14.7	6.3	4.3	.9	.9	.4	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	208	4
6-7	.0	1.1	6.7	10.6	5.8	3.4	1.7	1.3	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	169	6
8-9	.0	.4	1.5	3.5	3.4	2.6	1.7	1.3	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	80	7
10-11	.0	.0	.7	.6	.4	.4	.6	1.1	.9	.6	.2	.0	.0	.0	.0	.0	.0	.0	.0	29	10
12-13	.0	.0	.6	.2	.2	.6	.4	.4	.9	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	18	10
>13	.0	.0	.0	.6	.0	.2	.4	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	8	10
INDET	1.3	.4	.0	1.3	.9	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	25	4
TOTAL	18	55	190	124	80	43	32	24	20	6	1	2	0	0	0	0	0	0	0	537	6
PCT	3.4	10.2	24.2	23.1	14.9	8.4	6.0	4.5	3.7	1.1	.2	.4	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1856-1973

MARCH

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33.35 152.3E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA						
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA	
N	1.3	2.7	.6	.0	.0	.0	.0	4.6	1.0	5.0	4.6	.0	2.0	.0	83.4	
NE	2.7	2.8	.1	.0	.0	.0	.2	5.7	.8	3.9	2.8	.0	2.5	.2	81.5	
E	5.0	4.6	1.4	.0	.0	.0	.0	11.0	.9	2.5	2.0	.0	1.1	.0	83.2	
SE	4.6	7.3	1.4	.0	.0	.0	.0	13.0	1.1	1.9	2.1	.0	.7	.0	81.8	
S	6.8	8.8	1.2	.0	.0	.0	.0	16.2	.7	2.0	2.8	.0	1.6	.0	77.9	
SW	5.0	5.7	1.0	.0	.0	.0	.0	11.7	.7	3.8	1.7	.0	.9	.0	81.9	
W	4.1	2.7	1.1	.0	.0	.0	.0	7.9	.0	.0	6.0	.0	.8	.0	85.4	
NW	4.9	4.3	1.7	.0	.0	.0	.0	10.9	1.1	4.5	4.7	.0	1.3	.0	78.4	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	3.7	.0	.0	.0	.0	3.7	.0	3.7	.0	.0	3.7	.0	88.9	
TOT PCT	4.2	5.2	1.0	.0	.0	.0	*	10.2	.9	3.0	3.0	.0	1.5	*	82.2	
TOT OBS:	2210															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOURL (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	4.0	4.9	1.6	.0	.0	.0	.0	10.5	.7	.5	2.3	.0	2.8	.0	83.6
06009	3.9	4.8	.4	.0	.0	.0	.1	9.3	.3	3.1	4.1	.0	1.7	.1	82.8
12015	3.4	4.7	.8	.0	.0	.0	.0	8.7	1.7	5.3	2.7	.0	.8	.0	82.2
18021	5.2	6.1	1.2	.0	.0	.0	.0	12.1	.9	2.8	3.4	.0	1.2	.0	80.2
TOT PCT	4.2	5.2	.9	.0	.0	.0	*	10.2	.9	3.0	3.2	.0	1.5	*	82.1
TOT OBS:	2329														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.3	5.9	6.3	1.4	.1	.0		15.1	11.9	17.2	14.8	10.1	11.9	20.2	19.3	18.4	11.7	
NE	1.6	9.7	7.2	.5	*	.0		19.0	10.2	10.2	14.4	25.3	26.4	22.5	20.3	15.9	12.2	
E	1.3	6.6	3.5	.4	*	.0		11.9	9.4	9.1	10.3	13.6	15.3	13.4	12.0	9.8	10.5	
SE	1.2	8.2	6.9	1.7	.2	*		18.2	12.2	16.9	18.7	22.9	19.0	16.1	18.2	16.0	15.7	
S	.9	5.9	6.8	3.1	.8	.1		17.4	15.2	23.8	19.4	18.8	14.1	17.9	16.1	19.0	15.5	
SW	.6	2.9	2.5	.7	.3	*		7.1	12.9	10.9	10.7	4.7	3.9	2.1	5.0	8.1	12.2	
W	.9	2.2	.8	.3	.0	*		4.3	8.7	4.7	5.4	1.6	3.1	2.0	3.2	4.9	9.6	
NW	1.0	2.9	1.1	.3	.0	.0		5.3	9.0	6.1	4.9	4.3	4.7	4.6	4.9	4.9	9.8	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.7							1.7	.0	1.3	1.4	.7	1.3	1.3	1.0	3.0	2.8	
TOT OBS	373	1363	1082	261	42	5	3076		11.5	160	486	455	455	239	418	536	327	
TOT PCT	10.5	44.3	35.2	8.5	1.4	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	3.8	7.6	3.5	.2	*		15.1	11.9	15.4	11.0	19.6	15.9
NE	5.2	11.2	2.5	*	*		19.0	10.2	13.3	25.9	21.1	14.5
E	4.8	5.6	1.3	.1	*		11.9	9.4	10.0	14.5	12.5	10.1
SE	4.3	9.2	3.9	.7	.1		18.2	12.2	18.2	21.0	17.4	15.9
S	3.2	7.0	5.1	2.0	.1		17.4	15.2	20.5	15.5	16.8	17.7
SW	2.0	3.0	1.4	.6	*		7.1	12.9	10.8	4.3	4.0	9.7
W	2.1	1.6	.5	.1	*		4.3	8.7	5.2	2.4	2.8	6.7
NW	2.3	2.1	.8	.1	.0		5.3	9.0	5.2	4.5	4.8	6.7
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.7						1.7	.0	1.4	1.1	1.1	2.9
TOT OBS	906	1456	586	118	10	3076		11.5	646	910	657	863
TOT PCT	29.5	47.3	19.1	3.8	.3		100.0		100.0	100.0	100.0	100.0

MARCH

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1856-1973AREA 0007 SYDNEY
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00603	1.4	11.1	39.0	36.2	9.3	2.5	.5	12.1	100.0	646
06609	1.1	8.4	46.6	34.7	7.8	1.3	.1	11.3	100.0	910
12615	1.1	6.2	43.8	38.1	9.7	1.1	.0	12.0	100.0	657
18621	2.9	9.6	46.2	32.7	7.6	.8	.1	10.8	100.0	863
TOT	51	272	1363	1082	261	42	5	11.5		3076
PCT	1.7	8.8	44.3	35.2	8.5	1.4	.2	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	9.8	2.0	4.9	1.4		2.9
NE	8.6	2.8	4.1	2.0		3.1
E	3.3	2.4	3.2	3.5		4.7
SE	3.8	3.4	7.1	3.7		5.0
S	4.6	4.7	6.9	2.6		4.5
SW	1.5	1.6	2.3	.8		4.6
W	1.7	.3	.5	.1		2.5
NW	1.8	.9	1.7	.2		3.4
VAR	.0	.0	.0	.0		.0
CALM	1.0	.0	.7	.0		2.9
TOT OBS	254	127	220	101	702	3.9
TOT PCT	36.2	18.1	31.3	14.4	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.5	1.9	1.0	.0	.0	.0	.4	14.2	
NE	.0	.0	.0	.7	1.4	1.2	.5	.2	.1	.2	13.2	
E	.1	.0	.1	1.2	1.8	1.4	.5	.2	.0	.0	7.2	
SE	.0	.0	.1	2.2	4.0	1.7	.6	.1	.0	.0	9.3	
S	.0	.0	.5	1.4	3.3	2.2	.4	.2	.0	.0	10.9	
SW	.0	.0	.5	.4	1.0	.5	.1	.1	.0	.0	3.7	
W	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1	2.2	
NW	.0	.0	.0	.2	.1	.5	.0	.0	.0	.0	3.7	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.4	.1	.0	.0	.0	.0	1.1	
TOT OBS	1	0	9	46	98	61	15	6	1	5	460	702
TOT PCT	.1	.0	1.3	6.6	14.0	8.7	2.1	.9	.1	.7	65.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR			VSBY (NM)			OR		
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	>0
OR >6500	.7	.8	.8	.8	.8	.8	.8	.8	.8
OR >5000	1.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
OR >3500	3.2	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
OR >2000	8.9	11.7	12.1	12.1	12.1	12.1	12.1	12.1	12.1
OR >1000	21.1	25.6	26.3	26.3	26.3	26.3	26.3	26.3	26.3
OR >600	25.4	32.0	32.7	32.8	32.8	32.8	32.8	32.8	32.8
OR >300	26.1	32.8	33.9	34.1	34.1	34.1	34.1	34.1	34.1
OR >150	26.1	32.8	33.9	34.1	34.1	34.1	34.1	34.1	34.1
OR >0	26.1	33.0	34.1	34.2	34.2	34.2	34.2	34.2	34.2
TOTAL	185	234	242	243	243	243	243	243	243

TOTAL NUMBER OF OBS: 710

PCT FREQ NH <5/8: 65.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	8 OBSCD	TOTAL OBS
14.6	19.7	14.3	10.4	7.2	7.5	7.6	7.7	10.9	.1	804

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1856-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	NO PCP	*	.0	.0	.0	.0	.0	*	.0	.0	.0	.1	
	TOT %	*	.0	.0	*	.0	.0	*	.0	.0	.0	.1	
1/2<1	PCP	.1	*	.1	.1	.2	*	.0	*	.0	.0	.6	
	NO PCP	.5	.1	.1	.1	.1	.0	.2	.3	.0	.0	1.4	
	TOT %	.5	.2	.1	.2	.4	*	.2	.4	.0	.0	2.0	
1<2	PCP	*	*	.0	.0	*	.0	.0	.0	.0	.0	.1	
	NO PCP	*	.1	.1	.1	.1	.0	.0	.0	.0	.0	.4	
	TOT %	.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.5	
2<5	PCP	.1	*	*	.1	.1	.1	*	.0	.0	*	.5	
	NO PCP	.2	.2	.0	.2	.2	.2	*	.1	.0	.0	1.0	
	TOT %	.3	.2	*	.3	.3	.2	.1	.1	.0	*	1.6	
5<10	PCP	.5	.8	.9	1.8	2.2	.5	.2	.5	.0	.0	7.4	
	NO PCP	5.0	8.0	4.5	7.5	7.3	2.6	1.5	1.5	.0	.3	38.2	
	TOT %	5.5	8.8	5.5	9.3	9.5	3.1	1.7	1.9	.0	.3	45.6	
10+	PCP	.0	.1	.3	.3	.5	.2	*	.1	.0	.0	1.5	
	NO PCP	8.9	9.3	6.1	7.8	7.8	3.0	2.2	2.8	.0	.9	48.6	
	TOT %	8.9	9.5	6.4	8.1	8.2	3.2	2.2	2.9	.0	.9	50.2	
TOT OBS													2208
TOT PCT		15.3	18.8	12.1	18.0	18.6	6.6	4.2	5.3	.0	1.2	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.0	.0	*	.0	.0	*	.0	.0	.0	.1	
1/2<1	0-3	*	.1	.0	.0	.0	.0	*	.1	.0	.0	.2	
	4-10	*	*	.1	*	.0	.0	.1	*	.0	.0	.4	
	11-21	.1	.0	.1	.1	.1	.0	*	.2	.0	.0	.6	
	22+	.3	*	*	.0	.2	.0	.0	.0	.0	.0	.6	
	TOT %	.5	.1	.1	.2	.3	*	.1	.4	.0	.0	1.8	
1<2	0-3	*	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.0	*	.1	*	.0	.0	.0	.0	.0	.0	.1	
	11-21	*	*	.0	.0	.1	*	.0	.0	.0	.0	.2	
	22+	.0	.0	.0	*	.1	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.1	.1	.1	.2	*	.0	.0	.0	.0	.5	
2<5	0-3	.0	.1	*	*	*	*	.0	*	.0	*	.3	
	4-10	.2	.1	.1	.1	.1	.1	*	.1	.0	.0	.8	
	11-21	.1	.1	.0	.2	.2	.1	*	*	.0	.0	.7	
	22+	.0	*	.0	*	*	.1	.0	.0	.0	.0	.2	
	TOT %	.3	.3	.1	.4	.4	.3	.1	.1	.0	*	1.9	
5<10	0-3	.3	.8	.5	.7	.6	.3	.4	.1	.0	.4	4.3	
	4-10	2.3	4.6	2.7	3.7	2.8	1.2	.8	.9	.0	.0	19.0	
	11-21	2.1	2.6	1.5	3.0	3.3	1.1	.3	.5	.0	.0	14.4	
	22+	.4	.1	.2	1.0	1.9	.2	.1	.2	.0	.0	4.2	
	TOT %	5.1	8.1	4.9	8.5	8.6	2.9	1.6	1.8	.0	.4	41.9	
10+	0-3	.9	.7	.8	.6	.3	.3	.6	.7	.0	1.0	6.0	
	4-10	3.4	4.8	3.9	4.2	3.0	1.5	1.1	1.7	.0	.0	23.7	
	11-21	4.0	4.4	2.2	3.6	3.4	1.0	.4	.6	.0	.0	19.6	
	22+	.8	.3	.1	.9	1.5	.5	.2	.1	.0	.0	4.5	
	TOT %	9.1	10.3	7.1	9.2	8.2	3.3	2.4	3.1	.0	1.0	59.7	
TOT OBS													2481
TOT PCT		15.1	19.0	12.3	18.4	17.7	6.5	4.2	5.3	.0	1.5	100.0	

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1856-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	1.2	5.3	12.9	9.4	1.2	.6	.6	.0	31.0	69.0	171
06009	.0	.0	.6	8.6	10.9	9.8	1.1	.6	.0	.6	32.2	67.8	174
12015	.4	.0	.9	5.2	12.2	5.7	2.6	1.3	.0	.9	29.1	70.9	230
18021	.0	.0	2.0	5.0	15.8	7.4	2.5	.5	.0	1.0	34.2	65.8	202
TOT	1	0	9	46	101	61	15	6	1	5	245	532	777
PCT	.1	.0	1.2	5.9	13.0	7.9	1.9	.8	.1	.6	31.5	68.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2-1	1-2	2-5	5-10	10+	TOTAL OBS
00003	.2	1.7	1.1	2.8	38.9	55.3	463
06009	.0	2.3	.5	2.3	48.4	46.6	794
12015	.2	1.9	.2	1.2	36.9	59.7	583
18021	.1	2.0	.4	1.2	46.3	50.1	763
TOT	3	52	13	47	1132	1356	2603
PCT	.1	2.0	.5	1.8	43.5	52.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	1.3	10.1	25.3	64.6	158
06009	.0	.6	11.0	25.3	63.6	154
12015	.5	1.4	6.8	23.3	69.9	219
18021	.0	2.8	10.1	29.1	60.9	179
TOT	1	11	66	182	462	710
PCT	.1	1.5	9.3	25.6	65.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.1	.2	.1	.1	.0	5	.4
80/84	.0	.0	.0	.2	.9	.5	.3	.2	27	2.1
75/79	.0	.2	.1	1.0	2.7	7.2	5.9	2.2	252	19.2
70/74	.0	.0	.2	2.7	7.6	14.9	17.2	8.6	673	51.3
65/69	.0	.1	.1	2.2	4.3	7.8	6.3	3.3	315	24.0
60/64	.0	.0	.0	.1	.5	.5	.8	.9	38	2.9
55/59	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
TOTAL	0	3	5	83	211	406	401	202	1311	100.0
PCT	.0	.2	.4	6.3	16.1	31.0	30.6	15.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.2	.1	.0	.1	.1	.4	.0	.0	.0	.0
80/84	.2	.5	.2	.4	.2	.2	.1	.2	.0	.1
75/79	5.6	5.7	2.0	1.9	1.0	.7	.4	1.4	.0	.4
70/74	8.0	10.2	7.4	8.9	8.6	3.2	1.5	2.7	.0	.8
65/69	.5	1.2	2.3	6.6	9.2	1.7	1.0	.9	.0	.6
60/64	.1	.0	.1	.4	.8	.4	.4	.4	.0	.0
55/59	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0
TOTAL	14.5	17.7	12.0	18.3	19.9	6.6	3.5	5.7	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	89	84	79	73	65	62	60	72.5	635
06009	89	83	78	72	66	62	57	72.2	911
12015	81	78	75	71	66	61	58	71.2	683
18021	86	78	75	70	63	59	55	70.0	907
TOT	89	81	77	72	65	61	55	71.4	3136

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	10.2	25.0	28.8	23.1	12.9	75	264		
06009	.0	9.1	15.8	34.2	28.6	12.3	76	374		
12015	.0	4.4	13.5	31.7	33.5	16.9	79	319		
18021	.0	4.2	12.4	28.3	35.7	19.3	80	378		
TOT	0	91	215	412	410	207	78	1335		

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1856-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.1	.0	.1	.0	3	.0	.2
9/10	.0	.0	.0	.0	.2	.2	.1	.0	.0	8	.0	.4
7/8	.0	.0	.0	.1	.1	.2	.2	.1	.0	11	.0	.6
6	.0	.0	.0	.0	.0	.4	.4	.0	.1	16	.1	.8
5	.0	.0	.0	.0	.2	.7	.5	.1	.0	28	.1	1.4
4	.0	.0	.0	.2	.6	1.7	.8	.1	.0	65	.1	3.3
3	.0	.0	.0	.1	.6	1.4	.3	.0	.0	45	.3	2.1
2	.0	.0	.0	.1	1.6	4.0	1.3	.1	.0	134	.3	6.8
1	.0	.0	.0	.1	1.8	4.0	.5	.0	.0	122	.4	6.1
0	.0	.0	.0	1.0	6.2	6.5	1.1	.1	.0	282	.5	14.3
-1	.0	.0	.0	.9	5.1	5.1	.4	.0	.0	219	.5	11.1
-2	.0	.0	.2	2.0	6.5	3.9	.5	.0	.0	249	.4	12.7
-3	.0	.0	.2	3.0	4.1	2.3	.2	.0	.0	183	.3	9.3
-4	.0	.0	.6	2.7	4.9	1.4	.1	.0	.0	183	.4	9.3
-5	.0	.0	.7	2.8	3.0	.8	.1	.0	.0	138	.2	7.1
-6	.0	.0	.8	1.3	1.4	.4	.0	.0	.0	75	.1	3.9
-7/-8	.0	.2	.6	1.9	1.3	.2	.0	.0	.0	78	.1	4.0
-9/-10	.0	.4	.5	.9	.5	.1	.0	.0	.0	45	.0	2.4
-11/-13	.1	.1	.2	.1	.1	.1	.0	.0	.0	10	.0	.5
-14/-16	.0	.0	.0	.1	.1	.0	.0	.0	.0	2	.0	.1
TOTAL	1	13	71	327	722	632	121	8	1	1896	71	1825
PCT	.1	.7	3.7	17.2	38.1	33.3	6.4	.4	.1	100.0	3.7	96.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.5	.0	.0	.0	.0	1.2	.2	.2	.0	.0	.0	.0	.4
1-2	.0	2.6	1.4	.0	.0	.0	4.0	.0	3.5	1.8	.0	.0	.0	5.3
3-4	.0	1.1	3.2	.0	.0	.0	4.4	.0	2.9	4.8	.0	.0	.0	7.7
5-6	.0	.3	3.6	.7	.0	.0	4.7	.0	.2	1.1	.2	.0	.0	1.6
7	.0	.0	.5	.6	.0	.0	1.1	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.1	.5	.0	.0	.7	.0	.0	*	.2	.0	.0	.2
10-11	.0	.2	.0	.3	.0	.0	.5	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.8	9.1	2.2	.0	.0	16.9	.2	6.9	8.6	.7	.0	.0	16.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.8	.0	.0	.0	.0	1.2	.2	.2	.0	.0	.0	.0	.4
1-2	.0	3.5	.3	.0	.0	.0	3.8	.0	3.4	.8	.0	.0	.0	4.3
3-4	.2	1.2	2.9	.2	.0	.0	4.5	.0	2.7	3.2	.2	.0	.0	6.2
5-6	.0	.5	1.4	.0	.0	.0	2.0	.0	.2	2.5	.5	.0	.0	3.3
7	.0	.0	.8	.0	.0	.0	.8	.0	.2	1.2	1.2	.2	.0	2.8
8-9	.0	.0	.1	.0	.0	.0	.1	.0	.2	.2	.3	.0	.0	.9
10-11	.0	.0	.0	.1	.0	.0	.1	.0	.0	.2	*	.0	.0	.3
12	.0	.0	.1	.1	.0	.0	.3	.0	.0	*	*	.2	.0	.3
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2	.0	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	6.1	5.7	.6	.0	.0	13.1	.2	7.1	8.4	3.0	.6	.0	19.3

PERIOD: (OVER-ALL) 1963-1973

MARCH

AREA 0007 SYDNEY
33.35 152.3E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	1.0	.0	.0	.0	1.1	.2	.4	.0	.0	.0	.0	.6
1-2	.0	2.2	1.0	.0	.0	.0	3.2	.0	.7	.4	.0	.0	.0	1.1
3-4	.0	1.9	2.7	.0	.0	.0	4.6	.0	.3	1.0	.2	.0	.0	1.5
5-6	.2	.0	2.4	1.5	.0	.0	4.1	.0	.2	1.1	.3	.0	.0	1.6
7	.0	.0	1.9	.3	.0	.0	2.6	.0	.0	.2	.0	.0	.0	.3
8-9	.0	.0	.2	1.1	.0	.0	1.7	.0	.0	.0	.0	.2	.0	.2
10-11	.0	.0	.1	.3	.0	.0	.5	.0	.0	.0	.0	.2	.0	.2
12	.0	.0	.2	.4	.0	.0	1.2	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.2	.0	.2
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.1	8.5	3.9	.9	.4	19.3	.2	1.7	2.8	.7	.6	.0	6.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.2	.0	.0	.0	.0	.4	.3	.4	.0	.0	.0	.0	.7	
1-2	.2	.7	.2	.0	.0	.0	1.1	.2	1.5	.0	.0	.0	.0	1.7	
3-4	.0	.1	.3	.0	.0	.0	.7	.0	.7	.7	.0	.0	.0	1.4	
5-6	.0	.0	.1	.0	.0	.0	.1	.0	.0	.8	.0	.0	.0	.8	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.4	1.1	.9	.0	.0	.0	2.4	.5	2.6	1.5	.3	.0	.0	5.0	98.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.7	3.8	.0	.0	.0	.0	8.5	
1-2	.4	18.2	5.9	.0	.0	.0	24.5	
3-4	.2	11.1	19.0	.6	.0	.0	30.8	
5-6	.2	1.6	13.0	3.4	.0	.0	18.2	
7	.0	.2	5.5	2.2	.6	.0	8.5	
8-9	.0	.2	.8	2.6	.2	.4	4.2	
10-11	.0	.2	.4	1.2	.2	.0	2.0	
12	.0	.0	.6	.8	.8	.0	2.2	
13-16	.0	.0	.0	.6	.2	.0	.8	
17-19	.0	.0	.0	.2	.0	.0	.2	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.2	.0	.2	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.5	35.2	45.3	11.5	2.2	.4	100.0	506

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.1	8.8	12.6	7.3	2.0	.9	.6	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	229	4
6-7	.0	1.1	6.2	9.3	6.1	2.6	1.4	.6	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	183	6
8-9	.0	.2	2.1	4.2	5.6	3.2	2.9	.5	1.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	133	7
10-11	.0	.0	.2	1.4	1.4	.9	1.7	.3	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	45	9
12-13	.0	.0	.5	1.4	.6	.5	.3	.3	.3	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	27	8
>13	.0	.0	.0	.3	.6	.0	.2	.2	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	12	11
INDET	.6	.5	.9	1.1	1.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	30	4
TOTAL	18	69	148	164	115	54	47	15	19	3	6	1	0	0	0	0	0	0	0	659	6
PCT	2.7	10.5	22.5	24.9	17.5	8.2	7.1	2.3	2.9	.5	.9	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1857-1972

APRIL

AREA 0007 SYDNEY
33.95 152.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD	SMOKE	SPRAY	NO
				PCPN		FRZN					PCPN	PCPN	HAZE	BLWG DUST	SIG
						PCPN					PAST HR			BLWG SNOW	WEA
N	2.5	2.7	1.9	.0	.0	.0	.0	7.0	.0	4.1	1.2	.0	3.2	.0	85.0
NE	5.6	4.9	2.2	.0	.0	.0	.0	12.8	.4	2.9	2.5	.0	2.8	.0	80.4
E	4.1	8.4	1.9	.0	.0	.0	.0	14.4	.8	2.2	2.6	.0	3.2	.0	77.2
SE	5.3	8.0	1.2	.0	.0	.0	.0	14.4	3.3	3.3	2.8	.0	1.3	.0	76.2
S	4.1	10.3	1.4	.0	.0	.0	.0	15.8	2.3	3.3	1.9	.0	1.6	.0	75.6
SW	4.6	6.5	2.3	.0	.0	.0	.0	13.1	2.6	2.7	1.3	.0	.2	.3	80.8
W	3.0	3.3	1.3	.0	.0	.0	.0	7.6	.8	2.1	1.2	.0	5.3	.0	83.3
NW	2.4	.8	.0	.0	.0	.0	.0	3.1	.5	1.8	2.6	.0	5.6	.0	86.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	1.9	.0	.0	.0	.0	.0	1.9	.0	.0	.0	.0	1.9	.0	96.2
TOT PCT	4.0	6.1	1.5	.0	.0	.0	.0	11.5	1.6	2.8	2.0	.0	2.6	*	80.3
TOT OBS:	2190														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG	SNOW	OTHER	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG	FOG WD	SMOKE	SPRAY	NO
				PCPN		FRZN					PCPN	PCPN	HAZE	BLWG DUST	SIG
						PCPN					PAST HR			BLWG SNOW	WEA
00003	1.6	7.5	1.6	.0	.0	.0	.0	10.5	2.6	.2	.7	.0	4.2	.2	81.5
06009	4.0	6.2	1.7	.0	.0	.0	.0	11.9	.6	2.3	2.3	.0	2.6	.0	81.3
12015	5.7	4.9	1.4	.0	.0	.0	.0	12.0	2.2	5.7	2.0	.0	1.2	.0	77.9
18021	3.9	6.7	1.2	.0	.0	.0	.0	11.8	1.2	3.3	3.1	.0	2.1	.0	79.4
TOT PCT	3.9	6.3	1.5	.0	.0	.0	.0	11.6	1.5	2.9	2.2	.0	2.5	*	80.0
TOT OBS:	2285														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.5	5.3	4.0	.6	.1	.0		11.5	10.5		12.2	11.0	8.5	12.0	13.3	14.8	12.0	9.5
NE	1.3	5.7	3.6	.7	.1	.0		11.4	10.3		7.7	8.1	16.7	17.4	11.7	11.9	8.7	5.9
E	1.1	5.1	2.1	.6	.2	.0		9.2	10.2		8.0	6.6	14.6	9.3	10.2	10.5	7.5	6.9
SE	1.4	6.3	5.7	1.7	.3	.0		15.3	12.3		19.3	12.3	16.8	19.0	21.4	13.5	13.7	11.7
S	2.2	5.5	6.5	2.8	.9	.1		18.0	14.2		17.5	21.5	20.2	16.5	16.7	16.3	17.7	16.3
SW	1.7	4.6	4.0	2.1	.7	.1		13.2	13.7		16.8	14.9	11.5	9.0	10.6	11.7	15.4	17.1
W	1.6	4.4	3.5	1.0	.2	.0		10.5	11.2		10.5	13.6	3.7	7.1	5.2	10.4	14.6	17.0
NW	1.5	3.9	2.4	.2	*	.0		8.1	9.1		6.7	8.7	6.3	7.0	6.5	8.4	8.1	12.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.6							2.6	.0		1.3	3.2	1.7	2.7	4.5	2.6	2.3	3.0
TOT OBS	438	1184	929	282	73	4	2910		11.5		150	470	404	484	201	387	479	335
TOT PCT	15.1	40.7	31.9	9.7	2.5	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	3.8	5.8	1.7	.3	*				11.3	10.4	14.3	10.9
NE	3.9	5.5	1.7	.3	.0				8.0	17.1	11.8	7.5
E	3.4	4.3	1.2	.3	*				7.0	11.7	10.4	7.2
SE	4.0	7.1	3.6	.5	.1				15.3	12.3	14.0	12.9
S	4.4	7.3	4.3	1.5	.5				18.0	14.2	20.6	16.2
SW	3.9	4.5	3.4	1.2	.2				13.2	13.7	15.4	16.1
W	3.9	3.9	2.3	.4	.1				10.5	11.2	12.9	15.6
NW	3.5	3.3	1.3	*	*				8.1	9.1	8.2	10.0
VAR	.0	.0	.0	.0	.0				.0	.0	.0	.0
CALM	2.6								2.7	2.3	3.2	2.6
TOT OBS	971	1215	564	132	28	2910			620	888	588	814
TOT PCT	33.4	41.8	19.4	4.5	1.0				100.0	100.0	100.0	100.0

APRIL

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1857-1972AREA 0007 SYDNEY
33.35 152.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.7	14.2	39.8	29.5	10.5	2.9	.3	11.6	100.0	620
06009	2.3	12.6	42.2	31.0	9.5	2.4	.1	11.3	100.0	888
12015	3.2	7.7	40.3	35.5	10.5	2.7	.0	12.2	100.0	888
18021	2.6	14.3	39.9	32.2	8.7	2.2	.1	11.2	100.0	814
TOT	77	361	1184	929	282	73	4	11.5		2910
PCT	2.6	12.4	40.7	31.9	9.7	2.5	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	5.7	1.6	2.2	1.3		3.1
NE	5.6	1.9	2.0	.9		2.8
E	4.3	2.1	2.7	2.0		4.0
SE	4.1	3.9	5.0	2.8		4.5
S	4.1	3.8	6.1	3.0		4.7
SW	5.9	3.1	3.9	1.5		3.6
W	5.7	.7	2.2	.9		3.0
NW	4.9	1.3	1.4	.6		2.4
VAR	.0	.0	.0	.0		.0
CALM	2.1	.0	.2	.7		2.5
TOT OBS	260	113	158	84	615	3.6
TOT PCT	42.3	18.4	25.7	13.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.1	1.2	.3	.5	.0	.0	.0	8.5	
NE	.0	.0	.0	.2	.9	.7	.5	.0	.0	.0	8.1	
E	.0	.2	.0	.6	2.0	.8	.3	.0	.0	.0	7.4	
SE	.2	.0	.0	1.6	2.2	2.0	.7	.0	.0	.2	8.9	
S	.0	.0	.0	2.3	3.0	1.8	.2	.1	.1	.0	9.4	
SW	.0	.0	.3	1.8	1.3	.5	.4	.1	*	.0	10.0	
W	.0	.0	.0	.7	.8	.9	.4	.0	.0	.0	6.6	
NW	.0	.0	.0	.5	.7	.1	*	.0	.0	.0	6.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	2.3	
TOT OBS	1	1	2	48	75	47	19	1	1	1	419	615
TOT PCT	.2	.2	.3	7.8	12.2	7.6	3.1	.2	.2	.2	68.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.2	.3	.3	.3	.3	.3	.3	.3
>5000	.3	.5	.5	.5	.5	.5	.5	.5
>3500	2.9	3.5	3.5	3.5	3.5	3.5	3.5	3.5
>2000	7.6	11.3	11.3	11.3	11.3	11.3	11.3	11.3
>1000	16.7	23.0	23.0	23.0	23.0	23.0	23.0	23.0
>600	20.4	29.4	30.4	30.7	30.7	30.7	30.7	30.7
>300	20.7	29.7	30.7	31.0	31.0	31.0	31.0	31.0
>150	20.7	29.9	30.9	31.2	31.2	31.2	31.2	31.2
>0	20.7	29.9	31.0	31.4	31.4	31.4	31.4	31.4
TOTAL	129	186	193	195	195	195	195	195

TOTAL NUMBER OF OBS: 622

PCT FREQ NM <5/8: 68.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
18.2	16.8	13.9	10.7	8.8	5.4	9.5	5.5	11.1	.1	704

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1857-1972

APRIL

AREA 0007 SYDNEY
33.35 152.2E

TABLE 8

		PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF PRECIPITATION WITH VARYING VALUES OF VISIBILITY										PCT	TOTAL DBS
VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM		
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.2
	NO PCP	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.0	.3
	TOT %	.0	.1	.0	.0	.2	.1	.0	.1	.0	.0	.0	.5
1<2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.4
	TOT %	.0	.0	.0	.0	.0	.0	.1	.2	.0	.0	.0	.4
2<5	PCP	.0	.0	.0	.3	.1	.1	.0	.0	.0	.0	.0	.5
	NO PCP	.1	.1	.0	.2	.4	.1	.2	.1	.0	.1	1.1	1.7
	TOT %	.1	.1	.0	.5	.4	.2	.2	.1	.0	.1	1.6	2.2
5<10	PCP	.7	1.0	1.3	1.6	1.9	1.2	.5	.2	.0	.0	8.4	14.3
	NO PCP	4.2	4.3	4.9	6.6	6.6	5.3	4.1	3.5	.0	1.0	40.7	60.7
	TOT %	4.9	5.3	6.2	8.2	8.5	6.6	4.6	3.7	.0	1.0	49.2	75.0
10+	PCP	.1	.2	.0	.3	.7	.5	.3	.0	.0	.0	2.1	3.8
	NO PCP	5.9	4.2	3.4	6.3	8.1	6.1	5.3	4.5	.0	1.2	45.7	69.5
	TOT %	6.0	4.4	3.4	6.6	8.8	6.6	5.6	4.5	.0	1.2	47.9	73.3
TOT DBS													
TOT PCT		11.0	10.2	9.7	15.4	18.1	14.1	10.5	8.7	.0	2.4	100.0	2187

TABLE 9

		PERCENT FREQ OF WIND DIRECTION VS WIND SPEED WITH VARYING VALUES OF VISIBILITY										PCT	TOTAL DBS
VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM		
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	22+	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.2
	TOT %	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3
2<5	0-3	.0	.0	.0	.1	.1	.1	.0	.1	.0	.1	.0	.4
	4-10	.0	.0	.0	.2	.1	.0	.1	.0	.0	.0	.0	.3
	11-21	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0	.0	.3
	22+	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.3
	TOT %	.0	.1	.0	.5	.3	.2	.2	.1	.0	.1	1.9	3.3
5<10	0-3	.5	.7	.6	.6	1.0	.7	.7	.7	.0	1.0	6.5	13.7
	4-10	2.6	2.1	3.3	3.3	2.4	1.9	1.9	1.4	.0	.0	19.0	32.7
	11-21	1.4	1.9	1.2	2.7	2.8	2.1	1.3	1.3	.0	.0	14.8	26.5
	22+	.2	.5	.6	1.0	1.8	1.4	.4	.1	.0	.0	5.9	10.6
	TOT %	4.7	5.2	5.8	7.6	8.1	6.2	4.3	3.5	.0	1.0	46.2	80.5
10+	0-3	1.0	.7	.6	.7	1.3	.9	.9	.9	.0	1.5	8.6	16.8
	4-10	2.5	2.7	2.2	2.8	2.6	2.8	2.2	2.2	.0	.0	20.0	36.3
	11-21	2.3	1.4	.8	3.1	3.6	2.1	2.2	1.4	.0	.0	16.8	30.5
	22+	.4	.1	.1	.5	1.6	1.4	.7	.2	.0	.0	4.9	8.8
	TOT %	6.2	4.9	3.7	7.1	9.0	7.3	6.0	4.6	.0	1.5	50.3	92.6
TOT DBS													
TOT PCT		11.0	10.5	9.6	15.4	18.1	13.8	10.6	8.5	.0	2.5	100.0	2368

APRIL

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1857-1972AREA 0007 SYDNEY
33.35 152.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.0	8.6	16.7	9.9	3.7	.6	.0	.0	39.5	60.5	162
06009	.0	.8	.0	7.1	7.1	4.0	3.6	.0	.8	.0	25.4	74.6	126
12015	.5	.0	.9	7.4	9.3	5.6	1.4	.0	.0	.5	25.6	74.4	215
18021	.0	.0	.0	5.1	10.8	9.1	1.7	.0	.0	.0	26.7	73.3	176
TOT	1	1	2	48	75	49	19	1	1	1	198	481	679
PCT	.1	.1	.3	7.1	11.0	7.2	2.8	.1	.1	.1	29.2	70.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.9	1.1	2.0	37.0	59.0	446
06009	.1	.9	.9	1.6	56.3	40.2	772
12015	.0	.2	.0	1.9	42.5	55.4	522
18021	.4	1.2	1.0	1.8	47.5	48.0	723
TOT	4	21	19	44	1166	1209	2463
PCT	.2	.9	.8	1.8	47.3	49.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.0	11.5	31.8	56.7	157
06009	.0	.9	9.2	19.3	71.6	103
12015	.5	1.5	9.7	17.9	72.3	195
18021	.0	.0	7.5	23.0	69.6	161
TOT	1	4	39	143	420	622
PCT	.2	.6	9.5	23.0	67.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.1	.0	.1	.2	.1	.0	.0	.0	8	.6
75/79	.0	.0	.1	1.0	.8	1.8	.7	.4	62	4.5
70/74	.0	.1	.5	2.1	7.3	9.6	8.3	3.8	438	31.6
65/69	.0	.1	.9	4.4	9.0	13.1	10.3	4.9	592	42.7
60/64	.0	.0	.4	1.7	3.5	3.6	5.3	2.5	237	17.1
55/59	.0	.0	.0	.1	.4	.9	1.3	.4	42	3.0
50/54	.0	.0	.0	.1	.0	.1	.1	.1	6	.4
TOTAL	1	2	29	134	294	398	360	167	1385	100.0
PCT	.1	.1	2.1	9.7	21.2	28.7	26.0	12.1		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.2	.1	.0	.0	.1	.0	.1	.1	.0	.0
1.0	1.0	.4	.1	.3	.5	.3	.7	.0	.1
6.0	5.4	4.8	4.0	4.0	2.1	1.6	3.2	.0	.5
2.7	2.9	4.9	8.9	8.9	5.7	4.4	2.6	.0	1.7
.5	.2	1.0	2.6	3.7	4.4	2.8	1.2	.0	.6
.1	.1	.0	.0	.6	1.2	.4	.4	.0	.3
.0	.0	.0	.0	.1	.1	.1	.1	.0	.0
10.5	9.7	11.0	15.6	17.7	14.1	9.8	8.4	.0	3.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	83	79	76	70	63	60	57	69.8	628
06009	83	79	75	69	61	57	50	68.8	906
12015	85	75	74	68	62	57	55	68.1	601
18021	79	75	73	67	59	54	50	66.7	835
TOT	85	78	75	68	61	57	50	68.3	2970

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	16.2	26.8	26.4	19.0	11.6	73	284
06009	.2	14.1	19.4	28.4	26.7	11.2	74	412
12015	.0	9.1	21.6	32.0	28.5	8.8	75	319
18021	.0	8.6	18.3	26.7	29.4	17.0	77	405
TOT	1	168	299	402	374	176	75	1420

APRIL

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1857-1972

TABLE 17

AREA 0007 SYDNEY
33.35 152.2EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WD FOG
9/10	.0	.0	.0	.0	.0	.0	.2	.3	9	.0	.5
7/8	.0	.0	.0	.0	.1	.1	.1	.3	10	.0	.6
6	.0	.0	.0	.1	.0	.2	.2	.2	12	.0	.7
5	.0	.0	.0	.0	.1	.3	.5	.2	21	.0	1.2
4	.0	.0	.0	.0	.1	.6	1.0	.2	34	.1	1.9
3	.0	.0	.0	.0	.3	.5	1.1	.2	38	.1	2.1
2	.0	.0	.0	.3	.9	1.6	1.6	.1	80	.1	4.4
1	.0	.0	.0	.2	1.1	2.1	2.8	.1	111	.2	6.1
0	.0	.0	.1	.6	2.2	6.5	2.5	.0	208	.2	11.6
-1	.0	.0	.0	1.0	3.1	5.5	1.3	.1	193	.6	10.3
-2	.0	.0	.1	1.4	3.4	5.7	1.0	.1	209	.3	11.2
-3	.0	.0	.3	1.5	3.7	3.3	.3	.0	181	.3	8.8
-4	.0	.0	.3	2.1	4.9	3.6	.6	.0	203	.2	11.3
-5	.0	.0	.2	1.8	4.0	1.8	.2	.0	141	.0	8.0
-6	.0	.1	.1	1.7	2.8	.9	.2	.0	101	.2	5.5
-7/-8	.0	.2	.6	2.4	3.4	1.5	.0	.0	144	.1	8.1
-9/-10	.0	.2	.4	1.4	1.3	.3	.0	.0	89	.1	3.5
-11/-13	.1	.0	.4	.6	.2	.0	.0	.0	22	.1	1.2
-14/-15	.0	.1	.1	.1	.1	.0	.0	.0	8	.0	.3
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	1	11	45	267	559	611	238	25	1781	45	1716
PCT	.1	.6	2.6	15.2	31.7	34.7	13.5	1.6	100.0	2.6	97.4

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	1.2	.0	.0	.0	.0	1.6	.1	1.0	.0	.0	.0	.0	1.1
1-2	.5	1.3	.6	.0	.0	.0	2.4	.1	3.6	.5	.0	.0	.0	4.2
3-4	.2	1.1	1.8	.0	.0	.0	3.0	.1	1.5	.5	.0	.0	.0	2.0
5-6	.0	.2	2.3	.2	.0	.0	2.8	.0	.0	1.6	.2	.0	.0	1.8
7	.0	.0	.5	.4	.0	.0	.9	.0	.0	.0	.1	.0	.0	.1
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.5	.2	.0	.8
10-11	.0	.0	.2	.2	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	3.8	9.4	1.1	.0	.0	11.3	.2	6.0	2.6	.8	.2	.0	9.9

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.6	1.6	.0	.0	.0	.0	2.5	.4	.8	.0	.0	.0	.0	1.1
1-2	.2	1.9	.2	.0	.0	.0	2.3	.2	3.6	.6	.0	.0	.0	4.4
3-4	.0	.9	1.3	.0	.0	.0	2.2	.2	2.2	2.5	.0	.0	.0	5.0
5-6	.0	.2	.7	.0	.0	.0	.9	.0	1.0	3.7	.3	.0	.0	5.2
7	.0	.2	.2	.8	.2	.0	1.5	.0	.0	.7	.2	.0	.0	.9
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.2	.5	.0	.7	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	4.9	2.7	1.1	.7	.0	10.3	.8	7.6	7.6	.7	.0	.0	16.7

PERIOD: (OVER-ALL) 1963-1972

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.6	.4	.0	.0	.0	.0	1.0	.6	1.0	.2	.0	.0	.0	1.8
1-2	.2	2.0	1.2	.0	.0	.0	3.5	.0	2.4	.1	.0	.0	.0	2.5
3-4	.2	1.9	2.6	.4	.0	.0	5.2	.0	1.8	2.5	.3	.0	.0	4.5
5-6	.0	.5	2.2	1.5	.0	.0	4.2	.0	.1	1.1	.8	.9	.0	2.9
7	.0	.0	.7	.8	.4	.0	1.9	.0	.0	.2	.8	.1	.0	1.1
8-9	.0	.0	.2	1.1	.0	.0	1.2	.0	.0	.1	.6	.3	.0	.9
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.0	.2	.2	.2	.0	.7
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.1	.0	.0	.3
13-16	.0	.0	.0	.5	.4	.0	.8	.0	.0	.2	.2	.6	.0	1.1
17-19	.0	.2	.0	.4	.4	.0	1.1	.0	.0	.0	.1	.3	.0	.4
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.1	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.1	5.1	6.9	5.2	1.3	.0	19.5	.6	5.2	4.9	3.0	2.6	.0	16.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	2.2	.0	.0	.0	.0	2.2	.5	1.4	.0	.0	.0	.0	1.9	
1-2	.0	1.1	.6	.0	.0	.0	1.7	.2	.1	.5	.0	.0	.0	.8	
3-4	.0	.2	.7	.0	.0	.0	.9	.0	1.2	1.2	.0	.0	.0	2.4	
5-6	.0	.2	.4	.2	.0	.0	.8	.0	.0	1.3	.0	.0	.0	1.3	
7	.0	.0	.0	.5	.0	.0	.5	.0	.2	.0	.0	.0	.0	.2	
8-9	.0	.0	.2	.0	.2	.0	.4	.0	.0	.5	.0	.0	.0	.5	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	3.7	1.9	.9	.4	.0	6.9	.7	2.9	3.7	.0	.0	.0	7.3	98.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.8	9.7	.2	.0	.0	.0	15.7	
1-2	1.6	15.7	4.4	.0	.0	.0	21.8	
3-4	.7	10.6	13.0	.7	.0	.0	25.0	
5-6	.0	2.1	13.2	3.5	.9	.0	19.7	
7	.0	.5	2.3	3.5	.7	.0	6.9	
8-9	.0	.0	1.2	2.3	.7	.0	4.2	
10-11	.0	.0	.7	1.2	.7	.0	2.5	
12	.0	.0	.2	.2	.0	.0	.5	
13-16	.0	.0	.2	.7	1.2	.0	2.1	
17-19	.0	.2	.0	.5	.7	.0	1.4	
20-22	.0	.0	.0	.0	.2	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	8.1	38.9	35.4	12.5	5.1	.0	100.0	432

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	6.9	9.3	7.1	2.4	.3	.5	.3	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	169	4
6-7	.0	.9	5.4	9.3	6.0	1.9	1.4	.7	.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	155	6
8-9	.0	.2	3.1	2.8	5.5	3.1	2.4	1.0	1.6	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	116	7
10-11	.0	.3	.2	.9	1.2	.7	1.9	.5	.5	.2	.5	.0	.2	.0	.0	.0	.0	.0	.0	41	10
12-13	.0	.0	.0	.2	.3	.0	.3	.0	.7	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	11	12
>13	.0	.0	.0	.3	.5	.0	.2	.2	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	9	10
INDET	9.2	1.7	.5	.7	.7	.2	.0	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	78	2
TOTAL	60	58	107	123	97	36	39	17	27	6	7	1	1	0	0	0	0	0	0	579	6
PCT	10.4	10.0	18.5	21.2	16.8	6.2	6.7	2.9	4.7	1.0	1.2	.2	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1857-1972

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	4.2	3.3	.0	.0	.0	.0	.0	7.4	1.1	5.3	4.8	.0	.5	.0	82.1
NE	5.1	5.7	1.1	.0	.0	.0	.5	12.5	2.3	7.0	3.3	.0	1.1	.0	77.4
E	6.0	11.1	2.6	.0	.0	.0	.0	19.7	.7	2.6	4.7	.0	.0	.0	73.4
SE	5.8	7.7	2.0	.0	.0	.0	.0	15.5	2.2	.9	3.0	.0	.0	.0	79.1
S	8.1	14.6	1.9	.0	.0	.0	.0	24.6	2.3	1.5	1.9	.0	.0	.0	70.0
SW	6.1	8.9	1.0	.0	.0	.0	.0	15.9	1.1	2.1	1.9	.0	.0	.0	79.6
W	3.4	3.1	.5	.0	.0	.0	.0	6.8	.6	3.8	1.4	.0	.7	.0	87.4
NW	4.2	3.0	.5	.0	.0	.0	.0	7.6	1.1	5.9	2.7	.0	1.1	.0	82.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	1.6	.0	.0	.0	.0	1.6	.0	2.2	3.2	.0	6.3	.0	85.7
TOT PCT	5.3	7.3	1.2	.0	.0	.0	*	13.8	1.4	3.3	2.6	.0	.6	.0	79.1
TOT OBS:	2119														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	5.5	4.7	1.7	.0	.0	.0	.0	11.8	1.2	.5	2.6	.0	.9	.0	83.4
06009	6.2	8.7	1.0	.0	.0	.0	.0	15.8	1.0	2.2	3.0	.0	.5	.0	78.3
12015	6.2	7.2	.4	.0	.0	.0	.0	13.8	2.1	7.0	2.5	.0	.2	.0	76.3
18021	4.8	7.8	1.6	.0	.0	.0	.2	14.1	1.4	3.6	2.3	.0	.6	.0	78.9
TOT PCT	5.6	7.3	1.1	.0	.0	.0	*	14.1	1.4	3.3	2.6	.0	.5	.0	79.0
TOT OBS:	2183														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	1.0	4.7	3.0	.2	.0	.0		8.9	9.5	7.1	6.0	6.4	10.3	11.3	11.5	10.1	9.0	
NE	1.1	4.8	2.3	.3	.0	.0		8.5	9.1	10.0	6.0	13.8	10.0	7.7	8.9	7.4	5.4	
E	.7	3.3	1.9	.5	.1	.0		6.6	10.6	6.9	5.4	8.1	10.0	5.7	7.3	4.8	4.2	
SE	.7	5.6	3.8	1.7	.5	.1		12.4	13.5	11.0	12.6	11.5	14.2	7.3	14.8	11.4	13.8	
S	1.5	6.4	6.0	2.9	.8	.2		17.8	14.7	13.9	20.3	20.1	17.3	20.8	17.0	14.4	17.1	
SW	1.4	6.3	6.3	3.1	.7	.2		18.0	14.8	18.7	20.9	16.9	14.1	16.7	15.7	22.4	18.6	
W	1.6	5.7	5.0	2.1	.4	.1		14.9	13.2	17.6	16.9	14.3	11.6	14.0	12.4	16.1	17.3	
NW	1.5	4.7	3.1	.4	.1	*		9.9	10.1	12.9	8.5	7.5	8.2	11.9	10.4	10.2	13.0	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	3.1							3.1	.0	1.9	3.5	1.3	4.3	4.6	1.9	3.3	3.6	
TOT OBS	371	1215	919	931	75	16	2927		12.2		193	319	390	441	237	361	490	334
TOT PCT	12.7	41.5	31.4	11.3	2.6	.5		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+					00	06	12	18	21
N	3.0	4.9	1.0	*	.0			8.9	9.5	6.2	8.5	11.4	9.6	
NE	3.4	4.0	1.1	*	.0			8.5	9.1	6.9	11.8	8.4	6.6	
E	2.6	2.6	1.1	.3	*			6.6	10.6	5.8	9.1	6.7	4.6	
SE	3.1	5.6	2.5	.8	.4			12.4	13.5	12.2	12.9	11.8	12.3	
S	4.4	6.8	4.2	2.0	.5			17.8	14.7	18.8	18.6	18.5	15.5	
SW	3.9	6.8	5.1	2.0	.2			18.0	14.8	20.4	15.4	16.1	20.1	
W	4.2	6.2	3.2	1.2	.1			14.9	13.2	17.0	12.8	13.0	16.6	
NW	3.3	5.0	1.2	.3	*			9.9	10.1	9.5	7.9	11.0	11.3	
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	
CALM	3.1							3.1	.0	3.1	2.9	3.0	3.4	
TOT OBS	904	1229	564	194	36	2927			12.2	674	831	598	824	
TOT PCT	30.9	42.0	19.3	6.6	1.2			100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1857-1972

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	3.1	11.6	38.6	30.9	10.2	4.3	1.3	12.8	100.0	674
06009	2.9	9.4	43.1	30.6	11.4	2.3	.4	11.9	100.0	831
12015	3.0	7.0	44.0	32.1	11.7	2.0	.2	12.3	100.0	598
18021	3.4	10.0	40.5	32.2	11.8	1.8	.4	12.0	100.0	824
TOT	91	280	1215	919	331	75	18	12.2		2927
PCT	3.1	9.6	41.5	31.4	11.3	2.6	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCH	TOTAL OBS	MEAN CLOUD COVER
N	3.1	2.1	2.5	1.9		4.2
NE	2.2	1.1	3.2	2.1		4.9
E	1.4	.9	2.5	.8		4.9
SE	1.7	3.1	3.0	1.1		4.5
S	3.9	4.4	5.7	3.0		4.6
SW	6.1	4.4	4.9	1.8		3.8
W	6.8	3.4	5.2	2.3		3.8
NW	4.1	1.7	3.0	2.0		4.0
VAR	.0	.0	.0	.0		.0
CALM	3.3	.7	.4	.0		1.9
TOT OBS	231	154	215	106	706	4.1
TOT PCT	32.7	21.8	30.5	15.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.1	.4	1.6	.8	.2	.0	.2	.1	6.2	
NE	.0	.0	.4	.3	1.5	.3	.1	.0	.0	.3	5.4	
E	.0	.0	.0	.7	.6	.7	.1	.0	.0	.0	3.5	
SE	.0	.0	.1	.5	1.4	1.1	.1	.0	.0	.0	5.7	
S	.0	.0	.5	1.9	2.1	1.9	.5	.0	.0	.0	10.1	
SW	.0	.0	.5	.9	2.4	1.3	.4	.0	.0	.0	11.8	
W	.3	.0	.0	1.4	2.4	1.5	.5	.0	.0	.5	11.2	
NW	.0	.0	.1	1.0	1.7	.3	.1	.1	.1	.5	6.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.1	.1	.0	.0	.0	.0	.1	4.0	
TOT OBS	4	0	13	50	98	56	14	1	3	10	457	706
TOT PCT	.6	.0	1.8	7.1	13.9	7.9	2.0	.1	.4	1.4	64.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >4500	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
= OR >3000	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
= OR >2500	3.5	3.9	3.9	3.9	3.9	3.9	3.9	3.9
= OR >2000	9.4	11.5	11.8	11.8	11.8	11.9	11.9	11.9
= OR >1000	20.1	25.1	25.4	25.5	25.5	25.7	25.7	25.7
= OR >400	24.3	30.7	32.4	32.5	32.5	32.7	32.7	32.7
= OR >300	25.4	32.4	34.2	34.4	34.4	34.5	34.5	34.5
= OR >150	25.4	32.4	34.2	34.4	34.4	34.5	34.5	34.5
= OR >0	25.4	32.7	34.5	34.6	34.8	35.1	35.1	35.1
TOTAL	181	233	246	247	248	250	250	250

TOTAL NUMBER OF OBS: 713

PCT FREQ NH <5/8: 64.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCH	TOTAL OBS
	12.1	13.5	16.7	14.1	7.9	7.8	9.6	7.1	10.8	.5	780

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1857-1972

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	NO PCP	.0	*	.0	.0	.0	.0	*	.0	.0	*	.1	
	TOT %	.0	*	.0	*	*	.0	*	.0	.0	*	.2	
1/2<1	PCP	*	.0	.1	.0	.0	*	*	.0	.0	.0	.2	
	NO PCP	.1	.0	*	.1	.1	.0	*	.1	.0	.0	.4	
	TOT %	.1	.0	.1	.1	.1	*	.1	.1	.0	.0	.6	
1<2	PCP	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	*	
	NO PCP	.0	.0	*	.0	*	.1	*	.0	.0	.0	.2	
	TOT %	.0	.0	.1	.0	*	.1	*	.0	.0	.0	.2	
2<5	PCP	*	*	*	.1	.6	.2	.1	.1	.0	.0	1.1	
	NO PCP	.0	.1	*	.2	.1	.1	.2	.3	.0	.0	1.0	
	TOT %	*	.1	.1	.2	.7	.3	.3	.4	.0	*	2.1	
5<10	PCP	.5	.9	1.0	1.5	2.9	2.3	.7	.5	.0	.0	10.3	
	NO PCP	3.4	2.7	2.0	4.2	5.8	5.8	5.1	3.8	.0	.6	33.5	
	TOT %	3.9	3.7	3.0	5.7	8.7	8.1	5.8	4.4	.0	.6	43.9	
10+	PCP	.1	.1	.1	.1	.9	.3	.2	.2	.0	*	2.1	
	NO PCP	5.2	4.7	3.0	4.9	7.5	8.5	9.4	5.4	.0	2.3	50.9	
	TOT %	5.3	4.8	3.2	5.0	8.3	8.8	9.7	5.6	.0	2.3	53.0	
TOT OBS													2118
TOT PCT		9.4	8.7	6.5	11.1	17.9	17.3	15.9	10.4	.0	3.0	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	*	.0	.0	.0	.0	.0	*	.0	*	.1	
	4-10	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	*	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	*	*	.0	.0	.0	.0	.0	*	
	TOT %	.0	*	.0	*	*	.0	*	*	.0	*	.2	
1/2<1	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	4-10	.1	.0	.0	.0	.0	.0	*	.1	.0	.0	.2	
	11-21	.0	.0	*	*	.0	*	*	.0	.0	.0	.2	
	22+	.0	.0	.1	*	*	.0	.0	.0	.0	.0	.1	
	TOT %	.1	.0	.1	.1	.1	*	.1	.1	.0	.0	.6	
1<2	0-3	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	*	.0	.0	.0	*	*	.0	.0	.1	
	11-21	.0	.0	*	.0	*	*	*	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	*	
	TOT %	.0	.0	.1	.0	.1	.1	.1	*	.0	.0	.3	
2<5	0-3	.0	*	*	*	.1	.0	.1	*	.0	.1	.4	
	4-10	.1	.1	*	.2	.4	.1	.1	.3	.0	.0	1.3	
	11-21	.0	.1	*	.1	.2	.1	.1	.1	.0	.0	.7	
	22+	.0	.0	.1	*	.1	.2	.0	.0	.0	.0	.4	
	TOT %	.1	.3	.2	.4	.8	.4	.3	.4	.0	.1	2.8	
5<10	0-3	.3	.4	.4	.2	.6	.7	.5	.7	.0	.6	4.3	
	4-10	1.9	1.9	1.0	2.4	3.0	2.6	1.8	1.8	.0	.0	16.2	
	11-21	1.2	1.1	1.1	1.6	2.8	2.5	1.7	1.3	.0	.0	13.3	
	22+	.2	.1	.4	1.3	1.9	1.9	1.4	.2	.0	.0	7.4	
	TOT %	3.6	3.4	2.9	5.5	8.4	7.6	5.3	4.0	.0	.6	41.2	
10+	0-3	.7	.5	.2	.4	.8	.8	1.1	.8	.0	2.5	7.9	
	4-10	2.8	2.8	1.9	3.0	3.4	3.4	4.0	2.6	.0	.0	23.9	
	11-21	1.8	1.2	1.1	2.0	3.0	3.7	3.6	1.8	.0	.0	18.2	
	22+	.0	.2	.2	.5	1.1	1.6	1.1	.3	.0	.0	4.9	
	TOT %	5.4	4.8	3.4	6.0	8.4	9.4	9.7	5.5	.0	2.5	55.0	
TOT OBS													2353
TOT PCT		9.1	8.5	6.6	11.9	17.7	17.5	15.4	9.9	.0	3.2	100.0	

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PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1857-1972AREA 0007 SYDNEY
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH > 4/8) AND
OCCURRENCE OF NH < 5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH < 5/8 ANY HGT	TOTAL OBS
00003	.6	.0	3.0	6.1	15.2	9.8	3.0	.0	.0	2.4	40.2	59.8	164
06009	.0	.0	3.3	9.3	9.9	8.6	2.0	.0	.7	.7	34.4	65.6	191
12015	.4	.0	.9	6.9	12.5	5.2	1.3	.4	.9	.4	28.9	71.1	232
18021	1.0	.0	.5	4.9	14.2	7.8	1.5	.0	.0	2.0	31.9	68.1	204
TOT	4	0	13	50	98	57	14	1	3	10	250	501	751
PCT	.5	.0	1.7	6.7	13.0	7.6	1.9	.1	.4	1.3	33.3	66.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.9	.5	.5	2.9	35.4	59.8	443
06009	.0	.8	.1	3.6	47.9	47.5	718
12015	.0	.4	.2	1.9	37.2	60.4	535
18021	.1	.4	.4	2.6	42.7	53.7	721
TOT	9	13	7	68	1008	1316	2417
PCT	.2	.5	.3	2.8	41.7	54.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH > 4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH < 5/8 AND 5+	TOTAL OBS
00003	.6	4.5	12.2	30.8	57.1	156
06009	.0	3.5	14.1	23.2	62.7	142
12015	.5	1.4	9.5	21.6	68.9	222
18021	1.0	1.6	8.3	25.9	65.8	193
TOT	4	18	76	179	458	713
PCT	.6	2.5	10.7	25.1	64.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.2	.0	.2	.1	.0	.0	5	.4
79/79	.0	.1	.2	.5	.5	.6	.0	.1	25	1.9
70/74	.0	.0	.4	1.8	3.9	3.4	1.4	.5	151	11.4
69/69	.0	.0	.9	4.5	8.5	13.3	9.0	3.3	322	24.5
60/64	.0	.0	.5	3.1	12.0	9.5	7.7	3.0	473	35.8
59/59	.0	.0	.1	.8	2.9	2.4	2.7	1.2	132	10.0
50/54	.0	.0	.0	.1	.1	.0	.5	.3	12	.9
TOTAL	0	1	29	142	371	386	280	111	1320	100.0
PCT	.0	.1	2.2	10.8	28.1	29.2	21.2	8.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.1	.0	.1	.0	.0	.2	.0	.0	.1
79/79	.2	.7	.0	.1	.1	.0	.4	.2	.0	.3
70/74	1.9	1.9	.9	.7	.5	.8	2.0	1.7	.0	1.1
69/69	4.6	4.6	3.8	4.9	5.7	5.4	4.7	3.9	.0	2.0
60/64	1.3	1.3	1.7	3.8	8.2	8.3	6.7	3.3	.0	1.1
59/59	.2	.2	.1	.3	1.8	3.3	3.0	1.0	.0	.1
50/54	.1	.0	.0	.0	.0	.3	.3	.2	.0	.0
TOTAL	8.3	8.7	6.5	9.9	16.3	18.2	17.2	10.3	.0	4.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	83	77	73	65	58	54	51	65.8	662
06009	81	76	72	65	58	54	49	65.2	833
12015	75	73	70	64	57	53	50	64.2	603
18021	79	73	70	64	56	52	50	63.3	830
TOT	83	75	72	64	57	53	49	64.6	2928

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	14.9	32.2	24.9	21.1	6.9	72	261		
06009	.0	16.5	24.2	31.3	18.4	9.6	72	364		
12015	.0	14.4	27.2	31.3	19.1	8.1	72	320		
18021	.0	8.1	28.0	28.5	26.3	9.1	75	407		
TOT	0	178	373	395	290	116	73	1352		

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1857-1972

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.1	.1	.0	3	.0	.2
9/10	.0	.0	.0	.1	.2	.1	.0	.0	5	.0	.3
7/8	.0	.0	.0	.1	.2	.1	.0	.0	7	.0	.4
6	.0	.0	.0	.1	.2	.1	.1	.0	7	.0	.4
5	.0	.0	.0	.2	.3	.2	.1	.1	14	.0	.8
4	.0	.0	.0	.4	.3	1.0	.3	.1	33	.1	1.8
3	.0	.0	.0	.2	.5	.7	.2	.0	27	.1	1.5
2	.0	.0	.0	.4	1.0	1.4	.4	.0	52	.1	3.0
1	.0	.1	.0	.2	1.4	1.7	.3	.0	63	.2	3.6
0	.0	.0	.1	1.8	3.0	2.2	.1	.0	122	.1	7.2
-1	.0	.1	.2	1.7	2.7	2.2	.4	.0	123	.3	7.0
-2	.0	.1	.4	3.8	5.1	2.6	.2	.0	202	.3	11.7
-3	.0	.1	.2	2.4	4.5	1.7	.1	.0	151	.2	8.8
-4	.0	.2	.8	4.8	4.0	.8	.0	.0	177	.7	9.9
-5	.1	.1	1.2	4.4	4.5	.3	.0	.0	176	.3	10.2
-6	.1	.1	1.5	3.3	2.9	.1	.0	.0	186	.2	7.9
-7/-8	.1	.2	2.1	6.2	2.7	.4	.0	.0	197	.4	11.3
-9/-10	.0	.5	1.9	3.6	.7	.0	.0	.0	113	.1	6.6
-11/-13	.0	.3	1.7	.8	.2	.0	.0	.0	51	.2	2.9
-14/-16	.1	.3	.4	.2	.0	.0	.0	.0	17	.0	1.0
-17/-19	.0	.0	.1	.0	.0	.0	.0	.0	2	.0	.1
TOTAL	6	34	177	582	262	2.3	.1	1678	100.0	3.2	96.8
PCT	.4	2.0	10.5	34.7	34.4	15.6	2.3	.1			

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.2	.0	.0	.0	.0	.9	.0	.8	.0	.0	.0	.0	.8
1-2	.0	3.3	.4	.0	.0	.0	3.7	.0	3.2	.5	.0	.0	.0	3.7
3-4	.0	.5	3.8	.0	.0	.0	4.3	.0	.7	1.2	.0	.0	.0	1.9
5-6	.0	.0	1.2	.0	.0	.0	1.2	.0	.7	.8	.0	.0	.0	1.6
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.7	.7	.0	.0	1.4
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	4.0	6.0	.0	.0	.0	10.7	.0	5.4	3.6	1.0	.0	.0	9.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.0	.0	.0	.0	.0	.2	.1	.7	.0	.0	.0	.0	.8
1-2	.0	1.0	.5	.0	.0	.0	1.4	.0	1.3	.5	.0	.0	.0	1.7
3-4	.0	.4	.7	.0	.0	.0	1.0	.0	1.7	1.1	.2	.0	.0	3.1
5-6	.0	.0	1.1	.2	.0	.0	1.4	.0	.2	.8	.2	.0	.0	1.3
7	.0	.0	.4	.0	.0	.0	.4	.0	.1	.8	.0	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.4	.0	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	1.3	2.7	.2	.0	.0	4.5	.1	4.0	3.4	1.1	.0	.0	8.5

PERIOD: (OVER-ALL) 1963-1972

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.4	1.1	.0	.0	.0	.0	1.5	.4	.6	.0	.0	.0	.0	1.0	
1-2	.0	2.3	1.4	.0	.0	.0	3.7	.0	2.7	.0	.0	.0	.0	2.7	
3-4	.2	1.0	2.0	.2	.0	.0	3.4	.0	1.8	3.2	.3	.0	.0	5.3	
5-6	.0	.0	2.3	.2	.0	.0	2.6	.0	.5	3.7	1.3	.3	.0	5.7	
7	.0	.4	2.0	.8	.4	.0	3.6	.0	.0	.9	1.6	.4	.0	2.9	
8-9	.0	.2	.7	.6	.0	.0	1.4	.0	.1	.0	.2	.0	.0	.3	
10-11	.0	.0	.0	.9	.0	.0	.9	.0	.0	.0	.1	.1	.0	.1	
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.5	.0	.0	.5	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.2	.2	.0	.4	.0	.0	.0	.3	.1	.0	.4	
20-22	.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	.2	.2	.0	.3	
23-25	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.7	5.0	8.7	2.9	1.0	.2	18.4	.4	5.7	7.8	4.5	1.1	.0	19.4	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.5	.0	.0	.0	.0	.7	.0	.2	.0	.0	.0	.0	.2	
1-2	.0	2.8	.0	.0	.0	.0	2.8	.0	2.3	1.2	.0	.0	.0	3.5	
3-4	.0	.6	2.4	.2	.0	.0	3.3	.0	1.5	3.0	.0	.0	.0	4.5	
5-6	.0	.9	2.7	1.1	.2	.0	4.8	.0	.9	1.0	.1	.0	.0	1.4	
7	.0	.0	1.1	1.7	.4	.0	3.3	.0	.5	.1	.0	.1	.0	.6	
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1	
10-11	.0	.0	.2	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	4.8	6.7	3.0	1.0	.0	15.7	.0	4.8	5.3	.1	.1	.0	10.2	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.0	4.3	.0	.0	.0	.0	9.3	
1-2	.0	18.6	4.5	.0	.0	.0	23.2	
3-4	.2	8.1	17.2	1.0	.0	.0	26.5	
5-6	.0	2.6	13.6	3.1	.5	.0	19.8	
7	.0	1.0	6.4	4.8	1.2	.0	13.4	
8-9	.2	.2	1.4	1.2	.0	.0	3.1	
10-11	.0	.0	.2	1.2	.2	.0	1.7	
12	.0	.0	.2	.5	.0	.0	.7	
13-16	.0	.0	.0	.2	.2	.0	.5	
17-19	.0	.0	.0	.5	.2	.0	.7	
20-22	.0	.0	.0	.2	.2	.2	.7	
23-25	.0	.0	.0	.0	.2	.0	.2	
26-32	.0	.0	.0	.0	.2	.0	.2	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.5	34.8	43.7	12.6	3.1	.2	100.0	419

PERIOD: (OVER-ALL) 1969-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.0	9.9	9.4	8.5	4.2	.5	.7	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	200	4
6-7	.0	1.4	6.4	8.7	6.6	2.1	1.9	1.0	.5	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	171	6
8-9	.0	.2	1.0	3.0	2.8	1.9	1.7	.7	1.4	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	75	8
10-11	.0	.0	.5	.3	1.0	.7	1.9	1.2	.7	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	40	10
12-13	.0	.0	.3	.3	.3	.2	.3	.3	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	13	9
>13	.0	.0	.0	.3	.2	.2	.0	.3	.3	.5	.2	.2	.2	.0	.0	.0	.0	.0	.0	14	14
INDEX	4.7	1.0	1.6	1.4	.9	.7	.3	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	3
TOTAL	33	72	111	130	92	36	40	22	20	10	6	2	2	0	0	0	0	0	0	576	6
PCT	5.7	12.5	19.3	22.6	16.0	6.3	6.9	3.8	3.5	1.7	1.0	.3	.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1902-1972
(OVER-ALL) 1855-1972

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	4.0	8.0	1.3	.0	.0	.0	.0	13.3	.5	3.2	2.2	.0	1.3	.0	81.2
NE	6.5	5.4	1.8	.0	.0	.0	.0	13.8	.2	5.0	.0	.0	.0	.0	81.5
E	10.2	9.5	3.1	.0	.0	.0	.4	23.2	3.9	3.1	3.9	.0	.0	.0	67.6
SE	11.3	15.0	.5	.0	.0	.0	.2	27.1	.7	3.0	.0	.0	.0	.0	71.1
S	7.8	16.3	2.3	.0	.0	.0	.0	26.4	2.0	3.2	1.4	.0	.0	.0	69.0
SW	5.4	9.0	.9	.0	.0	.0	.0	15.3	1.1	3.1	.6	.0	.2	.0	80.8
W	3.7	2.0	.5	.0	.0	.0	.3	6.5	.5	5.1	.8	.0	.7	.0	88.0
NW	5.0	.8	.5	.0	.0	.0	.0	6.3	.0	2.7	3.1	.0	.6	.0	87.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	.0	.0	.0	96.0
TOT PCT	6.3	8.4	1.2	.0	.0	.0	.1	16.0	1.1	3.5	1.3	.0	.4	.0	79.1
TOT OBS:	1973														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	5.6	5.6	1.2	.0	.0	.0	.0	12.4	1.0	.5	.7	.0	.7	.0	85.0
06009	6.2	10.8	1.3	.0	.0	.0	.2	18.4	.8	2.7	1.1	.0	.3	.0	78.1
12015	5.9	8.1	1.0	.0	.0	.0	.2	15.3	.7	6.7	1.7	.0	.5	.0	78.1
18021	7.1	8.3	1.2	.0	.0	.0	.2	16.7	1.5	4.8	1.7	.0	.3	.0	76.2
TOT PCT	6.3	8.5	1.2	.0	.0	.0	.1	16.1	1.0	3.7	1.3	.0	.4	.0	78.9
TOT OBS:	2094														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.7	4.1	2.7	.7	.1	.0		8.4	11.1		4.2	6.1	8.3	10.2	7.3	12.6	9.2	5.9
NE	.8	2.8	1.5	.2	.*	.0		5.3	9.1		2.4	4.0	6.5	7.4	5.0	5.9	5.9	3.1
E	.4	2.6	1.9	.8	.3	.0		6.0	13.7		12.3	5.4	6.5	6.9	6.3	5.8	5.4	3.6
SE	1.4	3.3	3.6	1.6	.6	.1		10.5	14.1		8.9	10.8	10.0	11.6	11.1	10.8	10.5	9.4
S	1.4	4.8	6.4	3.4	1.1	.1		17.2	16.1		14.3	15.7	23.3	16.2	21.9	16.7	14.9	16.3
SW	3.1	5.8	7.5	4.3	1.1	.1		21.9	15.0		25.6	24.6	20.2	21.6	17.4	18.3	20.4	26.8
W	1.3	5.9	7.3	3.1	1.0	.3		18.8	15.6		23.6	21.2	15.6	13.2	21.1	17.6	20.6	22.3
NW	1.5	4.2	3.0	1.2	.2	.1		10.1	11.6		7.1	10.7	7.0	11.3	8.1	10.1	11.3	11.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.8							1.8	.0		1.6	1.4	2.6	1.8	1.7	2.3	1.8	.9
TOT OBS	340	919	929	419	119	18	2744		13.9		124	491	379	445	175	353	448	329
TOT PCT	12.4	33.5	33.9	15.3	4.3	.7		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+						00	06	12	18
N	2.5	4.2	1.4	.3	.0			8.4	11.1		5.7	9.3	10.8	7.8
NE	2.3	2.3	.6	.1	.0			5.3	9.1		3.7	6.9	5.6	4.7
E	1.8	2.1	1.4	.6	.1			6.0	13.7		6.8	6.7	6.0	4.7
SE	2.5	4.5	2.3	1.1	.2			10.5	14.1		10.4	10.9	10.9	10.0
S	3.3	6.1	3.4	1.9	.5			17.2	16.1		15.4	19.4	18.4	15.5
SW	5.2	7.6	6.1	2.4	.6			21.9	15.0		24.8	20.9	18.0	23.1
W	3.9	7.0	5.3	2.1	.5			18.8	15.6		21.7	14.3	18.8	21.3
NW	3.5	4.1	2.0	.5	.1			10.1	11.6		10.0	9.3	9.4	11.5
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0
CALM	1.8							1.8	.0		1.5	2.2	2.1	1.4
TOT OBS	736	1039	670	244	95	2744			13.9		615	874	528	777
TOT PCT	26.8	37.9	24.4	8.9	2.0			100.0			100.0	100.0	100.0	100.0

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PERIOD: (PRIMARY) 1902-1972
(OVER-ALL) 1855-1972AREA 0007 SYDNEY
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	WIND SPEED (KNOTS)							PCT FREQ	TOTAL OBS
	CALM	1-3	4-10	11-21	22-33	34-47	48+		
00003	1.5	12.2	31.1	31.5	17.6	5.0	1.1	14.4	613
06009	2.2	10.9	34.8	35.1	12.9	3.6	.5	13.2	824
12015	2.1	7.6	31.6	37.5	16.3	4.7	.2	14.5	528
18021	1.4	11.1	35.3	31.9	15.3	4.2	.8	13.9	777
TOT	49	291	919	929	419	119	18	13.9	2744
PCT	1.8	10.6	33.5	33.9	15.3	4.3	.7	100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	1.6	.6	1.8	1.2		4.6
NE	1.4	.8	.9	1.1		4.6
E	1.5	.3	3.4	2.9		5.8
SE	1.2	1.7	4.3	3.2		5.7
S	2.6	5.4	9.1	3.7		5.1
SW	6.6	5.0	6.2	1.7		3.7
W	10.4	3.8	4.2	2.6		3.2
NW	4.2	.6	2.9	1.0		3.5
VAR	.0	.0	.0	.0		.0
CALM	.6	.4	.6	.0		3.5
TOT OBS	152	94	168	88	502	4.3
TOT PCT	30.3	18.7	33.5	17.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.9	.1	.1	.0	.0	.0	.7	3.4	
NE	.0	.0	.0	.5	.6	.2	.0	.0	.0	.0	2.8	
E	.0	.0	.0	1.3	1.9	.4	.3	.4	.0	.0	3.7	
SE	.0	.2	.4	1.6	1.7	.8	.8	.0	.0	.2	4.6	
S	.0	.0	.2	3.1	5.1	.9	.7	.1	.0	.0	10.8	
SW	.2	.0	.4	1.5	3.1	1.6	.1	.1	.0	.0	13.4	
W	.0	.0	.4	1.2	2.2	1.2	.1	.2	.0	.3	15.4	
NW	.0	.0	.0	.3	1.1	1.0	.3	.0	.0	.0	6.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
TOT OBS	1	1	7	53	80	28	12	4	0	7	309	502
TOT PCT	.2	.2	1.4	10.6	15.9	5.6	2.4	.8	.0	1.4	61.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
= OR >5000	1.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1
= OR >3500	3.7	4.5	4.5	4.5	4.5	4.5	4.5	4.5
= OR >2000	8.2	9.7	10.1	10.1	10.1	10.1	10.1	10.1
= OR >1000	20.5	25.0	25.9	25.9	25.9	25.9	25.9	25.9
= OR >600	25.9	33.1	35.9	36.3	36.3	36.3	36.3	36.3
= OR >300	25.9	33.5	37.0	37.4	37.6	37.6	37.6	37.6
= OR >150	25.9	33.7	37.2	37.6	37.8	37.8	37.8	37.8
= OR >0	25.9	33.7	37.2	37.8	38.0	38.0	38.0	38.0
TOTAL	133	173	191	194	195	195	195	195

TOTAL NUMBER OF OBS: 513

PCT FREQ NH <5/8: 62.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
11.6	15.3	10.5	10.3	13.6	9.5	9.1	7.8	12.1	580

PERIOD: (PRIMARY) 1902-1972
(OVER-ALL) 1855-1972

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1	
1/2<1	PCP	.1	.2	.0	.1	.2	.1	.1	.0	.0	.0	.7	
	NO PCP	.1	.0	.1	.0	.0	.1	.1	.1	.0	.0	.3	
	TOT %	.2	.2	.1	.1	.2	.1	.1	.1	.0	.0	1.0	
1<2	PCP	.0	.0	.0	.0	.1	.1	*	*	.0	.0	.2	
	NO PCP	.1	.0	.0	.0	.1	.1	.1	.1	.0	.0	.3	
	TOT %	.1	.0	.0	.0	.1	.1	.1	.1	.0	.0	.5	
2<5	PCP	*	.2	.3	.1	.4	.4	.1	*	.0	.0	1.5	
	NO PCP	*	.1	.1	.4	.2	.2	*	.1	.0	.0	1.1	
	TOT %	.1	.2	.4	.4	.6	.6	.2	.1	.0	.0	2.6	
5<10	PCP	.7	.4	.9	2.2	3.4	2.2	1.0	.5	.0	.0	11.4	
	NO PCP	3.5	2.7	2.2	3.3	6.2	7.6	7.9	3.9	.0	.0	37.9	
	TOT %	4.3	3.0	3.2	5.5	9.7	9.8	8.9	4.4	.0	.0	49.2	
10+	PCP	.2	.1	.2	.4	.5	.6	*	.1	.0	.0	2.2	
	NO PCP	3.2	2.1	2.6	4.0	6.5	10.7	9.5	5.1	.0	.0	44.4	
	TOT %	3.4	2.2	2.9	4.3	7.0	11.3	9.6	5.2	.0	.0	46.6	
TOT OBS													1972
TOT PCT		7.9	5.6	6.6	10.4	17.6	22.0	18.8	9.8	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	*	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	22+	.0	.0	*	*	.0	.0	.0	.0	.0	.0	*	
	TOT %	.0	.0	*	.1	.0	.0	.0	.0	.0	*	.1	
1/2<1	0-3	*	.0	.0	.0	.0	.0	.0	*	.0	.0	*	
	4-10	.0	*	*	.1	*	*	.0	*	.0	.0	.3	
	11-21	.1	.1	.0	*	*	.0	.0	.0	.0	.0	.3	
	22+	*	.0	.0	.0	.1	.1	.1	.0	.0	.0	.3	
	TOT %	.2	.1	*	.1	.2	.1	.1	.1	.0	.0	.9	
1<2	0-3	.0	.0	.0	*	.0	*	*	*	.0	.0	.2	
	4-10	*	.0	.1	.0	.0	*	.1	*	.0	.0	.3	
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.1	.1	*	*	.0	.0	.2	
	TOT %	*	.0	.1	*	.1	.3	.2	.1	.0	.0	.8	
2<5	0-3	.0	.0	.0	.1	.1	*	.1	*	.0	.0	.3	
	4-10	.0	.1	.1	.2	.2	.1	*	.1	.0	.0	.9	
	11-21	.1	.1	.2	.0	.1	.2	.0	.0	.0	.0	.7	
	22+	.0	.0	.1	.3	.3	.4	*	*	.0	.0	1.2	
	TOT %	.1	.2	.4	.5	.8	.8	.1	.2	.0	.0	3.1	
5<10	0-3	.3	.4	.2	.6	.6	.9	.8	.5	.0	.5	4.9	
	4-10	1.8	1.3	1.2	1.5	2.5	2.4	2.6	1.2	.0	.0	14.6	
	11-21	1.8	1.0	.6	1.6	3.1	3.1	3.0	1.9	.0	.0	16.0	
	22+	.2	.1	.9	1.4	2.7	2.9	1.8	.5	.0	.0	10.4	
	TOT %	4.0	2.8	2.9	5.1	8.9	9.2	8.2	4.1	.0	.5	45.9	
10+	0-3	.4	.5	.3	.8	.9	2.6	.5	1.0	.0	.7	7.8	
	4-10	2.1	1.5	1.1	1.7	2.0	3.2	2.6	2.7	.0	.0	17.0	
	11-21	.8	.5	1.0	2.1	3.4	4.2	4.4	1.3	.0	.0	17.7	
	22+	.2	*	.3	.5	1.2	1.8	2.2	.4	.0	.0	6.7	
	TOT %	3.5	2.4	2.7	5.2	7.6	11.9	9.7	5.4	.0	.7	49.2	
TOT OBS													2185
TOT PCT		7.8	5.6	6.2	11.1	17.6	22.3	18.3	9.8	.0	1.3	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL DBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.0	.0	.8	8.8	16.0	5.6	.8	.8	.0	.8	33.6	66.4	125
06009	.0	.0	.8	12.6	16.0	3.4	3.4	1.7	.0	.8	38.7	61.3	119
12015	.6	.0	.6	6.9	12.5	6.3	2.5	.6	.0	1.9	31.9	68.1	160
18021	.0	.7	2.7	10.9	15.0	5.4	2.0	.0	.0	1.4	38.1	61.9	147
TOT	1	1	7	33	81	29	12	4	0	7	195	356	551
PCT	.2	.2	1.3	9.6	14.7	5.3	2.2	.7	.0	1.3	35.4	64.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL
(GMT)							DBS
00003	.2	.5	1.2	2.6	39.0	56.6	426
06009	.0	1.1	1.0	3.8	55.3	38.8	709
12015	.2	1.1	1.1	2.6	38.4	56.6	463
18021	.1	.9	.4	2.7	48.1	47.8	668
TOT	3	21	20	68	1057	1097	2266
PCT	.1	.9	.9	3.0	46.6	48.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8	TOTAL
(GMT)	<50YD	<1	<5	AND5+	AND 5+	DBS
00003	.0	.9	12.0	23.9	64.1	117
06009	.0	.9	14.5	27.3	58.2	110
12015	.7	1.3	9.2	24.3	66.4	152
18021	.0	3.7	17.2	24.6	58.2	134
TOT	1	9	67	128	318	513
PCT	.2	1.8	13.1	25.0	62.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL	PCT
									DBS	FREQ
75/79	.0	.0	.0	.0	.1	.0	.0	.0	1	.1
70/74	.0	.0	.1	.1	.4	.6	.3	.2	19	1.6
65/69	.0	.1	1.0	1.2	3.1	5.0	4.2	1.9	192	16.4
60/64	.0	.2	1.5	5.8	12.5	15.7	9.4	4.3	578	49.4
55/59	.0	.0	.3	2.7	5.6	6.7	7.7	3.0	304	26.0
50/54	.0	.0	.0	.3	1.2	1.2	1.6	1.3	67	5.7
45/49	.0	.0	.0	.0	.1	.3	.3	.1	9	.8
TOTAL	0	3	35	118	268	344	277	125	1170	100.0
PCT	.0	.3	3.0	10.1	22.9	29.4	23.7	10.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.1	.0	.0	.0	.0	.0	.0
.4	.2	.1	.1	.3	.2	.1	.3	.0	.0
2.2	1.7	2.5	1.6	1.8	1.7	2.8	2.0	.0	.2
2.9	2.4	3.6	7.1	10.5	10.1	8.1	3.7	.0	.9
.3	.7	.8	3.2	5.7	5.9	6.6	2.3	.0	.4
.1	.1	.3	.1	.2	2.5	1.6	.8	.0	.2
.0	.0	.0	.1	.2	.3	.3	.0	.0	.0
5.9	5.1	7.2	12.2	18.6	20.6	19.4	9.2	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL
(GMT)									DBS
00003	77	73	68	62	55	52	46	61.9	611
06009	75	70	68	61	55	52	47	61.6	837
12015	72	69	67	61	55	52	51	61.1	544
18021	75	68	66	60	52	49	46	59.8	795
TOT	77	70	68	61	54	50	46	61.0	2787

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL
(GMT)								DBS
00003	.0	17.6	22.4	26.9	22.4	10.6	73	249
06009	.0	14.2	21.4	29.1	23.9	11.4	74	331
12015	.0	14.3	25.1	34.3	19.9	6.4	72	291
18021	.0	7.5	23.2	27.7	27.9	13.7	76	338
TOT	0	156	276	353	289	131	74	1205

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
11/13	.0	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
9/10	.0	.0	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
7/8	.0	.0	.0	.1	.5	.1	.1	.1	.0	12	.0	.8
6	.0	.0	.0	.1	.0	.0	.1	.0	.0	2	.0	.1
5	.0	.0	.0	.0	.1	.1	.1	.0	.1	5	.0	.3
4	.0	.0	.0	.0	.3	.4	.0	.1	.0	12	.0	.8
3	.0	.0	.0	.0	.2	.4	.3	.1	.0	14	.0	.9
2	.0	.0	.0	.3	.8	1.0	.4	.0	.0	40	.0	2.5
1	.0	.0	.0	.3	1.6	1.2	.3	.0	.0	52	.1	3.2
0	.0	.0	.1	1.0	2.8	2.2	.4	.0	.0	102	.1	6.3
-1	.0	.0	.3	1.1	3.4	2.9	.5	.0	.0	131	.2	8.1
-2	.0	.0	.5	1.7	5.4	2.8	.2	.0	.0	166	.2	10.3
-3	.0	.0	.2	2.5	4.6	2.0	.1	.0	.0	148	.2	9.2
-4	.0	.1	.4	2.6	5.8	1.8	.0	.0	.0	169	.2	10.5
-5	.0	.5	.8	3.9	5.5	1.3	.0	.0	.0	189	.2	11.8
-6	.0	.3	.6	3.6	3.2	.3	.0	.0	.0	123	.1	7.7
-7/-8	.0	.3	.6	3.6	3.2	.3	.0	.0	.0	214	.4	13.2
-9/-10	.0	.3	1.7	6.2	4.8	.6	.0	.0	.0	116	.0	7.4
-11/-13	.0	.3	1.8	3.6	1.8	.0	.0	.0	.0	67	.1	4.2
-14/-16	.0	.5	1.4	2.2	.2	.0	.0	.0	.0	8	.0	.5
-17/-19	.0	.1	.3	.1	.1	.0	.0	.0	.0	2	.0	.1
TOTAL	.1	1.1	1.0	.0	.0	.0	.0	.0	.0	2	.0	.1
			127		648		38		1		27	1568
		32		458		267		3		1575		
PCT	.1	2.0	8.1	29.1	41.1	17.0	2.4	.2	.1	100.0	1.7	98.3

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TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	N	22-33	34-47	48+	PCT	1-3	4-10	11-21	NE	22-33	34-47	48+	PCT
<1	.0	.7	.3	.0	.0	.0	.0	1.0	.3	.3	.0	.0	.0	.0	.0	.6
1-2	.3	3.2	.0	.0	.0	.0	.0	3.4	.0	1.6	.5	.0	.0	.0	.0	2.1
3-4	.0	.3	.5	.0	.0	.0	.0	1.1	.0	.5	.0	.0	.0	.0	.0	.5
5-6	.0	.0	.5	.0	.0	.0	.0	.5	.0	.0	.6	.3	.0	.0	.0	.8
7	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4
TOT PCT	.3	4.2	1.6	.2	.0	.0	.0	6.2	.3	2.4	1.4	.3	.0	.0	.0	

HGT	1-3	4-10	11-21	E	22-33	34-47	48+	PCT	1-3	4-10	11-21	SE	22-33	34-47	48+	PCT
<1	.3	.8	.0	.0	.0	.0	.0	1.1	.3	.1	.0	.0	.0	.0	.0	.4
1-2	.5	.5	.0	.0	.0	.0	.0	1.0	.5	1.2	.0	.0	.0	.0	.0	1.7
3-4	.0	.3	1.4	.3	.0	.0	.0	1.9	.0	.8	1.2	.5	.0	.0	.0	2.5
5-6	.0	.3	2.7	.2	.0	.0	.0	3.1	.0	.8	2.0	.1	.1	.0	.0	2.9
7	.0	.0	.0	.5	.3	.0	.0	.8	.0	.0	.6	.8	.0	.0	.0	1.4
8-9	.0	.0	.2	.0	.0	.0	.0	.2	.0	.0	.3	.0	.0	.0	.0	.3
10-11	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.3	.0	.0	.0	.3
12	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	.3	.0	.3	.0	.0	.6
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.6
TOT PCT	.8	1.9	4.3	1.2	.7	.0	.0	8.8	.8	2.9	4.4	1.7	.9	.0	.0	

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.5	.0	.0	.0	.0	.7	.0	.1	.0	.0	.0	.0	.1	
1-2	.0	.6	.3	.0	.0	.0	.9	.0	1.0	.8	.0	.0	.0	1.9	
3-4	.0	1.0	3.9	.0	.0	.0	4.9	.0	1.1	4.0	.3	.0	.0	5.3	
5-6	.0	.5	3.0	1.0	.2	.0	4.7	.0	.3	3.1	1.6	.3	.0	5.1	
7	.0	.0	3.7	1.3	.0	.0	3.9	.0	.0	1.0	.3	.3	.0	1.6	
8-9	.0	.0	.5	1.2	.0	.2	2.0	.0	.0	.3	.5	.3	.1	1.1	
10-11	.0	.0	.0	.0	.3	.0	.5	.0	.0	.3	.6	.0	.0	.9	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.8	.3	.0	1.1	
13-16	.0	.0	.0	.3	.2	.0	.5	.0	.0	.3	.3	.3	.0	.6	
17-19	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.1	.0	.0	.1	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.1	.0	.1	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	2.6	11.4	3.4	1.6	.2	19.5	.0	2.3	9.4	4.4	1.7	.1	18.1	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.8	.2	.0	.0	.0	1.0	.0	.6	.1	.0	.0	.0	.6	
1-2	.0	4.5	.9	.0	.0	.0	5.5	.3	2.7	.6	.0	.0	.0	3.5	
3-4	.0	.7	5.4	.0	.0	.0	6.1	.0	1.1	1.2	.0	.0	.0	2.3	
5-6	.0	.0	2.7	.0	.0	.0	2.7	.0	.0	.3	.0	.0	.0	.3	
7	.0	.0	1.2	.8	.0	.0	1.9	.0	.0	.6	.6	.0	.0	1.2	
8-9	.0	.0	.3	.7	.3	.2	1.5	.0	.0	.0	.3	.3	.1	.3	
10-11	.0	.0	.2	.5	.0	.3	1.2	.0	.0	.0	.3	.0	.0	.3	
12	.0	.0	.0	.3	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.2	.2	.2	.0	.0	.0	.0	.0	.1	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.5	.5	.5	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	6.0	11.1	2.8	.5	1.2	21.6	.3	4.4	2.7	.8	.3	.1	8.6	97.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	4.3	4.1	.5	.0	.0	.0	9.0	
1-2	1.5	13.1	3.1	.0	.0	.0	19.7	
3-4	.0	5.6	17.6	1.0	.0	.0	24.3	
5-6	.3	1.8	14.6	3.1	.5	.0	20.2	
7	.0	.0	7.2	3.3	.5	.0	11.0	
8-9	.0	.0	1.5	2.6	.6	.5	5.4	
10-11	.0	.0	.5	2.3	.3	.3	3.3	
12	.0	.0	.3	1.3	.8	.0	2.3	
13-16	.0	.0	.3	.5	1.0	.3	2.0	
17-19	.0	.0	.0	.5	.0	.0	.5	
20-22	.0	.0	.0	.0	.5	.5	1.0	
23-25	.0	.0	.0	.0	.8	.0	.8	
26-32	.0	.0	.0	.0	.5	.0	.5	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.1	26.6	45.5	14.6	5.6	1.5	100.0	391

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	6.0	8.3	4.4	3.0	.8	1.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	129	4
6-7	.0	.2	3.4	8.0	6.0	2.2	2.0	1.4	1.0	1.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	132	8
8-9	.0	.4	2.0	9.8	4.4	5.6	3.2	2.2	2.4	.6	1.4	.8	.2	.0	.0	.0	.0	.0	.0	145	9
10-11	.0	.0	1.0	.4	1.6	1.0	1.4	.8	.6	.4	.4	.4	.2	.0	.0	.0	.0	.0	.0	41	10
12-13	.0	.0	.0	.2	.4	.2	.4	.4	1.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	14	11
>13	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	4	16
INDEX	3.4	.6	.4	1.4	.2	.6	.2	.2	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	4
TOTAL	25	36	76	101	78	52	42	27	30	13	15	6	2	0	0	0	0	0	0	503	7
PCT	5.0	7.2	15.1	20.1	15.5	10.3	8.3	5.4	6.0	2.6	3.0	1.2	.4	.0	.0	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1855-1972

TABLE 1

AREA 0007 SYDNEY
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PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	
N	5.7	1.9	.6	.0	.0	.0	.0	8.2	.0	3.3	4.1	.0	.0	.0	85.1
NE	7.7	7.7	2.4	.0	.0	.0	.0	17.8	.0	1.0	3.8	.0	.5	.0	77.9
E	3.5	6.4	3.5	.0	.0	.0	.0	13.3	1.2	.9	.6	.0	.6	.0	83.5
SE	6.7	16.3	2.1	.0	.0	.0	.0	25.1	.8	1.2	1.2	.0	.2	.0	71.6
S	6.7	11.7	.3	.0	.0	.0	.3	19.0	3.0	2.3	1.3	.0	1.8	.0	73.9
SW	3.4	9.0	.7	.0	.0	.0	.0	13.1	2.0	1.7	1.3	.0	2.0	.1	80.0
W	1.6	4.2	.0	.0	.0	.0	.0	5.7	.5	4.5	2.0	.0	3.4	.1	84.2
NW	2.2	2.1	.0	.0	.0	.0	.5	4.8	.0	5.2	2.6	.0	1.0	.0	86.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	.0	20.0	.0	75.0
TOT PCT	4.2	7.5	.8	.0	.0	.0	.1	12.5	1.2	2.7	2.0	.0	1.9	.1	80.1
TOT OBS:	1828														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	
00003	3.9	5.7	.5	.0	.0	.0	.0	10.1	1.8	.3	.8	.0	3.4	.0	83.6
06009	4.2	6.7	.8	.0	.0	.0	.2	11.9	.7	2.5	3.0	.0	1.2	.0	81.4
12015	4.6	9.8	1.2	.0	.0	.0	.2	13.9	2.0	4.9	2.4	.0	.2	.2	75.3
18021	5.0	7.3	.3	.0	.0	.0	.0	12.6	.5	2.9	2.9	.0	2.4	.0	78.9
TOT PCT	4.5	7.3	.7	.0	.0	.0	.1	12.6	1.1	2.7	2.4	.0	1.8	.1	79.9
TOT OBS:	1971														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.1	3.6	3.0	.4	.0	.0		8.1	10.4		9.5	8.2	8.6	9.7	7.2	8.3	6.1	8.0
NE	.9	2.3	1.8	.6	.1	.0		5.7	11.1		3.6	4.7	7.0	7.6	8.3	5.0	4.6	4.3
E	.8	2.2	1.3	.5	.2	.0		4.9	11.2		4.4	3.6	5.7	7.2	2.6	6.3	3.2	4.9
SE	.6	3.9	2.7	1.5	.3	.1		9.1	14.1		6.7	9.3	10.0	9.8	7.6	9.5	10.0	7.0
S	1.4	6.5	5.1	2.3	1.4	.3		17.0	15.3		20.2	16.4	21.1	16.0	21.9	16.0	15.1	13.2
SW	1.8	7.2	8.4	4.4	1.5	.2		23.2	15.6		25.4	22.0	21.3	21.1	25.8	22.7	23.9	27.8
W	2.0	7.2	6.9	2.7	.9	.0		19.7	15.6		22.6	22.7	16.2	15.7	15.8	19.1	23.3	22.0
NW	.9	5.2	3.0	.9	.1	.0		10.2	11.1		6.7	11.0	7.2	9.5	8.9	12.1	12.5	11.1
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0		.8	2.1	2.9	3.4	1.7	1.0	1.2	1.8
TOT OBS	289	963	813	934	111	15	2525		13.4		126	431	374	409	180	309	416	280
TOT PCT	11.4	38.1	32.2	13.2	4.4	.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	06	12	18	21
N	2.5	4.2	1.3	.1	.0			8.1	10.4		8.5	9.2	7.9	6.9	
NE	2.1	2.3	1.0	.2	.0			5.7	11.1		4.4	7.3	6.2	4.5	
E	1.8	2.0	.6	.4	.0			4.9	11.2		3.8	6.5	9.0	3.9	
SE	2.2	3.8	2.1	.8	.2			9.1	14.1		8.8	9.9	8.8	8.8	
S	4.1	6.4	4.0	1.7	.8			17.0	15.3		17.2	18.4	18.2	14.4	
SW	4.9	8.6	6.2	2.9	.6			23.2	15.6		22.8	21.2	23.8	23.4	
W	5.3	8.0	4.3	1.9	.2			19.7	13.6		22.7	15.9	17.9	22.8	
NW	3.3	4.8	1.8	.3	.1			10.2	11.1		10.0	8.4	10.9	11.9	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	2.0							2.0	.0		1.8	3.2	1.2	1.4	
TOT OBS	712	1016	938	209	50	2525			13.4		557	783	489	696	
TOT PCT	28.2	40.2	21.3	8.3	2.0			100.0			100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1855-1972

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)							PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+	MEAN		
0000	1.8	11.3	33.8	33.2	13.8	5.4	.7	13.9	100.0	597
0600	3.2	11.4	41.9	28.5	11.1	3.6	.4	12.0	100.0	783
1200	1.2	3.5	38.9	36.6	14.5	4.7	.6	14.6	100.0	489
1800	1.4	9.9	36.9	32.5	14.2	4.3	.7	13.6	100.0	696
TOT	51	298	963	813	334	111	15	13.4		2525
PCT	2.0	9.4	38.1	32.2	13.2	4.4	.6	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	2.9	1.2	1.7	1.3		3.8
NE	2.1	.5	1.5	1.9		4.6
E	1.8	1.0	1.0	.1		3.4
SE	1.8	1.0	3.4	2.0		5.1
S	4.8	4.4	9.3	.7		4.2
SW	7.3	6.1	10.4	2.2		4.1
W	9.4	3.9	3.9	1.5		3.0
NW	5.1	1.3	1.7	1.3		3.2
VAR	.0	.0	.0	.0		.0
CALM	1.2	.0	.2	.0		1.5
TOT OBS	184	99	168	56	507	3.8
TOT PCT	36.3	19.5	33.1	11.0	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999				
N	.0	.0	.0	.5	.6	.6	.0	.2	.2	.0	5.1	
NE	.0	.0	.2	1.3	.8	.4	.6	.0	.0	.0	2.7	
E	.0	.0	.0	.1	.5	.0	.0	.2	.0	.0	3.2	
SE	.2	.0	.2	*	2.4	1.0	.6	.2	.0	.0	3.6	
S	.0	.0	.0	1.8	4.3	1.5	.3	.2	.0	.0	11.1	
SW	.2	.0	1.0	2.4	4.0	1.9	.5	.0	.2	.0	15.7	
W	.1	.0	.0	1.5	1.5	.6	.2	.3	.0	.1	14.3	
NW	.0	.0	.0	.2	.8	.2	.8	*	.0	*	7.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	
TOT OBS	3	0	7	40	76	32	15	6	2	1	325	507
TOT PCT	.6	.0	1.4	7.9	15.0	6.3	3.0	1.2	.4	.2	64.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.6	.6	.6	.6	.6	.6	.6	.6
= OR >5000	1.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7
= OR >3500	5.0	5.2	5.2	5.2	5.2	5.2	5.2	5.2
= OR >2000	9.9	11.3	11.5	11.5	11.5	11.5	11.5	11.5
= OR >1000	21.2	25.6	25.8	26.0	26.2	26.2	26.2	26.2
= OR >600	25.4	32.0	33.4	33.8	34.0	34.0	34.0	34.0
= OR >300	26.4	33.2	34.6	35.0	35.3	35.3	35.3	35.3
= OR >150	26.4	33.2	34.6	35.0	35.3	35.3	35.3	35.3
= OR >0	26.8	33.8	35.1	35.5	35.9	35.9	35.9	35.9
TOTAL	198	174	181	183	185	185	185	185

TOTAL NUMBER OF OBS: 515

PCT FREQ NH <5/8: 64.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
13.4	15.9	11.7	11.7	10.9	10.1	10.2	6.9	9.1	.0	596

JULY

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1855-1972AREA 0007 SYDNEY
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.1	.1	.0	.0	.0	.0	.1	.1	.0	.0	.2	.2
	TOT %	.1	.1	.0	.0	.0	.0	.1	.1	.0	.0	.2	.2
1/2<1	PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	.1
	NO PCP	.0	.2	.0	.0	.0	.1	.1	.1	.0	.0	.4	.4
	TOT %	.0	.2	.0	.1	.0	.1	.1	.1	.0	.0	.5	.5
1<2	PCP	.1	.1	.0	.1	.1	.1	.1	.1	.0	.0	.3	.3
	NO PCP	.0	.0	.0	.1	.1	.2	.1	.1	.0	.1	.5	.5
	TOT %	.1	.1	.0	.1	.2	.2	.1	.1	.0	.1	.8	.8
2<5	PCP	.1	.2	.1	.2	.4	.2	.1	.1	.0	.0	1.2	1.2
	NO PCP	.1	.0	.1	.1	.5	.7	.4	.1	.0	.1	2.0	2.0
	TOT %	.2	.2	.2	.3	.9	.9	.5	.1	.0	.1	3.2	3.2
5<10	PCP	.5	.7	.5	1.8	2.4	2.1	.8	.4	.0	.0	9.2	9.2
	NO PCP	4.1	1.7	2.0	3.6	6.3	7.2	9.1	4.9	.0	.3	39.1	39.1
	TOT %	4.5	2.4	2.5	5.4	8.8	9.3	9.9	5.3	.0	.3	48.3	48.3
10+	PCP	.1	.1	.1	.1	.4	.8	.2	.1	.0	.0	1.7	1.7
	NO PCP	3.8	2.7	2.0	3.1	6.9	12.0	9.3	5.0	.0	.6	45.3	45.3
	TOT %	3.9	2.8	2.1	3.2	7.2	12.7	9.4	5.1	.0	.6	47.0	47.0
1827													
TOT OBS													
TOT PCT		8.7	5.7	4.7	9.0	17.1	23.1	20.0	10.6	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.2	.0	.1	.0	.1	.1	.0	.0	.0	.0	.0
1<2	0-3	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.1
	4-10	.0	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.1	.2	.3	.2	.0	.0	.1	1.1	1.1
2<5	0-3	.0	.0	.0	.0	.2	.2	.2	.0	.0	.0	.1	.1
	4-10	.0	.1	.1	.2	.4	.3	.3	.0	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	.0	.0
	22+	.0	.1	.0	.1	.2	.2	.2	.0	.0	.0	.0	.0
	TOT %	.0	.3	.2	.4	1.0	1.0	.5	.1	.0	.1	3.6	3.6
5<10	0-3	.5	.3	.4	.2	.6	.9	1.0	.4	.0	.0	.3	4.7
	4-10	1.8	1.1	.8	1.8	3.0	2.3	3.4	2.4	.0	.0	16.6	16.6
	11-21	1.6	.6	.6	1.6	2.1	3.0	3.1	1.5	.0	.0	14.0	14.0
	22+	.2	.3	.5	1.3	2.5	2.5	1.6	.7	.0	.0	9.6	9.6
	TOT %	4.1	2.4	2.3	4.9	8.2	8.6	9.1	5.0	.0	.3	45.0	45.0
10+	0-3	.8	.7	.4	.4	.6	.9	.9	.5	.0	.0	.7	5.8
	4-10	1.6	1.1	1.2	1.7	3.1	4.0	3.7	3.2	.0	.0	19.7	19.7
	11-21	1.5	1.0	.4	1.0	2.9	5.5	3.4	1.4	.0	.0	17.0	17.0
	22+	.1	.2	.1	.3	.9	3.0	2.0	.4	.0	.0	7.1	7.1
	TOT %	4.0	3.0	2.1	3.3	7.5	13.4	10.0	5.4	.0	.7	49.5	49.5
2015													
TOT OBS													
TOT PCT		8.3	6.0	4.6	8.9	16.9	23.4	19.9	10.6	.0	1.3	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY MGT	TOTAL OBS
00003	.7	.0	1.5	11.0	11.8	6.6	2.9	2.2	.7	.0	37.5	62.5	136
06009	.9	.0	.9	3.5	16.7	7.0	4.4	.0	.0	.0	33.3	66.7	114
12015	.6	.0	1.2	7.3	14.6	6.1	1.8	1.2	.0	.0	32.9	67.1	164
18021	.0	.0	1.3	6.0	11.3	3.3	4.0	.7	.7	.7	27.8	72.2	151
TOT	3	0	7	40	76	32	18	6	2	1	185	380	565
PCT	.5	.0	1.2	7.1	13.5	5.7	3.2	1.1	.4	.2	32.7	67.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.3	.5	1.0	2.8	40.5	55.0	400
06009	.3	1.0	1.6	5.9	52.3	38.9	683
12015	.0	1.4	.2	1.6	43.0	53.8	442
18021	.6	1.1	1.3	2.7	47.2	47.1	633
TOT	7	22	24	75	1008	1022	2158
PCT	.3	1.0	1.1	3.5	46.7	47.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.8	2.4	16.6	26.8	58.5	123
06009	1.0	2.1	6.2	33.0	60.8	97
12015	.6	2.5	10.8	23.6	65.6	157
18021	.0	1.4	8.7	21.7	69.6	138
TOT	3	11	53	132	330	515
PCT	.6	2.1	10.3	25.6	64.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.2	.2	.3	.0	.0	.0	7	.6
65/69	.0	.2	.8	.8	2.3	2.4	1.3	1.0	102	8.8
60/64	.0	.3	1.3	5.4	11.8	10.6	7.5	3.4	465	40.2
55/59	.0	.1	.5	4.9	10.3	10.7	9.5	3.9	462	40.0
50/54	.0	.0	.2	.4	2.3	1.7	2.6	1.9	106	9.2
45/49	.0	.0	.0	.0	.2	.4	.2	.4	14	1.2
TOTAL	0	6	34	136	314	299	244	123	1156	100.0
PCT	.0	.5	2.9	11.8	27.2	25.9	21.1	10.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.1	.0	.0	.0	.0	.2	.1	.0	.1
2.4	.9	.3	.4	.6	.7	1.0	2.5	.0	.2
4.4	3.4	1.9	3.4	7.1	8.5	6.6	3.9	.0	1.0
2.2	1.4	1.2	3.2	8.0	12.3	8.1	2.9	.0	.3
.2	.3	.2	.6	1.4	2.7	3.1	.7	.0	.1
.0	.0	.0	.1	.2	.3	.4	.2	.0	.0
9.2	6.1	3.7	7.6	17.3	24.5	16.4	10.3	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	73	69	66	60	54	52	48	60.5	558
06009	73	68	66	60	54	50	46	59.9	810
12015	71	67	65	59	53	50	47	59.2	507
18021	71	67	64	58	51	48	46	57.8	731
TOT	73	68	65	59	53	49	46	59.3	2606

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	19.6	27.3	25.7	17.6	9.8	7.2	24.3		243
06009	.0	17.6	24.9	22.9	21.8	12.7	7.3	35.3		353
12015	.0	14.7	29.5	26.4	22.5	7.0	7.2	29.8		298
18021	.0	9.6	26.6	29.8	21.9	12.0	7.5	34.2		342
TOT	0	181	322	314	253	128	73	1198		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.1	.1	.0	2	.0	.1
9/10	.0	.0	.0	.1	.1	.1	.1	.0	3	.0	.2
7/8	.0	.0	.0	.1	.2	.3	.0	.1	9	.0	.6
6	.0	.0	.0	.1	.0	.1	.0	.0	3	.1	.1
5	.0	.0	.0	.1	.3	.1	.0	.0	11	.0	.7
4	.0	.0	.0	.1	.9	.3	.1	.0	21	.0	1.4
3	.0	.0	.1	.3	1.1	.7	.1	.0	27	.1	1.7
2	.0	.1	.1	.9	1.1	.6	.1	.0	46	.1	2.9
1	.0	.0	.3	.9	1.8	.6	.1	.0	56	.1	3.7
0	.0	.0	.5	1.9	3.2	1.2	.1	.0	103	.3	6.6
-1	.0	.0	.3	2.0	2.7	.8	.0	.0	87	.4	5.4
-2	.0	.1	1.5	4.3	4.5	1.0	.0	.0	170	.5	10.8
-3	.0	.2	.8	3.3	4.1	1.1	.0	.0	142	.2	9.2
-4	.0	.1	1.3	5.1	4.2	.4	.0	.0	167	.3	10.8
-5	.0	.3	1.3	5.3	3.3	.5	.0	.0	160	.3	10.4
-6	.0	.3	1.2	3.8	2.4	.3	.0	.0	120	.4	7.6
-7/-8	.1	.8	3.9	6.9	3.0	.1	.0	.0	222	.1	14.6
-9/-10	.1	.1	2.5	2.7	.4	.0	.0	.0	88	.1	5.8
-11/-13	.1	.3	1.7	1.2	.1	.0	.0	.0	51	.0	3.4
-14/-16	.0	.1	.5	.0	.0	.0	.0	.0	9	.0	.6
-17/-19	.1	.1	.1	.1	.0	.0	.0	.0	6	.0	.4
TOTAL	8	39	240	586	503	116	.7	.1	1503	2.9	97.1
PCT	.5	2.6	16.0	39.0	33.5	7.7	.7	.1	100.0	2.9	97.1

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TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5	.3	.3	.0	.0	.0	.0	.5
1-2	.0	2.4	.5	.0	.0	.0	2.9	.3	.7	.3	.0	.0	.0	1.3
3-4	.0	.3	1.7	.0	.0	.0	1.9	.0	.9	.1	.0	.0	.0	1.0
5-6	.0	.3	.5	.0	.0	.0	.8	.0	.0	.6	.8	.0	.0	1.4
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.5	.2	.0	.7	.0	.0	.0	.1	.3	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.3	1.8	1.1	1.1	.3	.0	4.9
TOT PCT	.0	3.5	2.7	.7	.2	.0	7.2	.0	.0	.0	.0	.0	.0	.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5	.3	.1	.0	.0	.0	.0	.3
1-2	.0	1.6	.2	.0	.0	.0	1.8	.0	.1	.0	.0	.0	.0	1.1
3-4	.0	.5	.0	.0	.0	.0	.5	.0	.6	.3	.0	.0	.0	1.8
5-6	.0	.0	.5	.0	.0	.0	.5	.0	.3	.9	.0	.0	.0	1.4
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.8	.6	.0	.0	1.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.1	.0	.1
13-16	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.3	2.0	2.3	1.7	.1	.3	6.7
TOT PCT	.0	2.5	.7	.2	.7	.0	4.1	.0	.0	.0	.0	.0	.0	.0

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.5	1.1	.0	.0	.0	.0	1.6	.0	.9	.0	.0	.0	.0	.9	
1-2	.3	2.5	1.2	.0	.0	.0	4.0	.0	2.9	1.3	.0	.0	.0	4.2	
3-4	.0	1.6	3.2	.0	.0	.0	4.8	.0	1.5	3.3	.3	.0	.0	5.2	
5-6	.0	.2	2.3	.7	.0	.0	3.2	.0	.4	3.0	1.7	.3	.0	5.4	
7	.0	.0	.5	.4	1.9	.2	3.0	.0	.0	1.2	3.2	.2	.1	4.7	
8-9	.0	.0	.2	.5	.8	.0	1.5	.0	.3	.6	.4	.0	.0	1.3	
10-11	.0	.0	.2	.5	.0	.5	1.2	.0	.0	.1	1.4	.1	.0	1.5	
12	.0	.0	.0	.2	.3	.0	.5	.0	.0	.0	.5	.0	.0	1.4	
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.5	.0	.0	.0	
17-19	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.5	.0	.0	.5	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.8	5.4	7.6	2.2	4.1	.7	20.8	.0	6.0	9.5	9.0	1.9	.1	26.5	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.0	.0	.0	.0	.0	1.0	.0	.5	.0	.0	.0	.0	.5	
1-2	.5	2.7	1.1	.0	.0	.0	4.4	.0	1.9	.3	.0	.0	.0	2.2	
3-4	.0	1.8	2.7	.5	.0	.0	5.0	.0	1.4	1.2	.0	.0	.0	2.6	
5-6	.0	.2	3.2	.9	.0	.0	4.3	.0	.0	1.4	.1	.0	.0	1.5	
7	.0	.0	.5	.7	.0	.2	1.4	.0	.0	.0	.0	.0	.0	.5	
8-9	.0	.0	.0	1.0	1.1	.0	2.1	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.1	.0	.1	
12	.0	.0	.0	.2	.5	.0	.7	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.5	5.8	7.5	3.4	2.7	.2	20.1	.0	3.8	2.9	.7	.1	.0	7.5	97.9

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.2	4.8	.0	.0	.0	.0	8.0	
1-2	1.3	15.7	5.1	.0	.0	.0	22.1	
3-4	.3	8.5	13.3	.8	.0	.0	22.9	
5-6	.0	1.3	11.7	5.1	.3	.0	18.4	
7	.0	.0	2.9	5.6	2.1	.5	11.2	
8-9	.0	.3	.8	2.4	1.9	.5	5.3	
10-11	.0	.0	.3	2.4	1.1	.5	4.3	
12	.0	.0	.0	1.1	1.3	.0	2.4	
13-16	.0	.0	.0	1.1	2.1	.0	3.2	
17-19	.0	.0	.0	.0	1.1	.0	1.1	
20-22	.0	.0	.0	.5	.0	.0	.5	
23-25	.0	.0	.0	.0	.3	.3	.5	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.8	30.7	34.1	18.9	10.1	1.3	100.0	375

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.3	6.8	9.4	5.2	1.3	.2	.9	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	4
6-7	.0	1.3	7.2	7.6	4.8	2.4	3.1	1.1	3.7	.7	.7	.0	.0	.0	.0	.0	.0	.0	.0	149	7
8-9	.0	.2	1.7	3.7	6.1	3.5	3.5	1.5	1.7	.2	.7	.2	.7	.4	.0	.0	.0	.0	.0	111	9
10-11	.0	.4	.4	.7	1.1	2.2	.4	.0	1.5	.7	.0	.2	.4	.0	.0	.0	.0	.0	.0	37	11
12-13	.0	.0	.0	.4	.2	.2	.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	8	12
>13	.0	.0	.0	.0	.0	.0	.2	.0	.4	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	5	18
INDET	1.7	.9	.9	.4	.7	.4	.4	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	29	5
TOTAL	14	44	90	83	65	41	39	13	41	8	9	3	6	2	0	0	0	0	0	458	7
PCT	3.1	9.6	19.7	18.1	14.2	9.0	8.5	2.8	9.0	1.7	2.0	.7	1.3	.4	.0	.0	.0	.0	.0	100.0	

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PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1855-1972AREA 0007 SYDNEY
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	4.6	1.5	.8	.0	.0	.0	.2	7.1	.7	4.8	1.7	.0	2.4	.0	84.9
NE	9.1	4.8	.9	.0	.0	.0	.0	14.6	1.6	2.7	1.2	.0	.9	.0	80.2
E	4.6	10.2	3.1	.0	.0	.0	.9	18.1	.7	.9	3.5	.0	.4	.0	77.3
SE	8.9	7.9	3.1	.0	.0	.0	.0	19.8	.9	1.4	.7	.0	.3	.0	78.3
S	3.0	6.8	2.8	.0	.0	.0	.0	12.6	1.7	2.7	1.2	.0	.4	.0	82.5
SW	4.7	5.6	1.2	.0	.0	.0	.5	12.0	.6	3.8	1.4	.0	.5	.0	82.6
W	2.1	3.3	.8	.0	.0	.0	.0	6.2	.0	4.1	1.6	.0	1.2	.0	87.8
NW	3.6	3.2	.1	.0	.0	.0	.3	7.2	.5	5.4	2.3	.0	2.0	.0	84.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.8	.0	1.9	.0	.0	.0	.0	5.7	.0	.0	3.8	.0	18.9	.0	71.7
TOT PCT	4.5	4.8	1.4	.0	.0	.0	.2	10.9	.7	3.4	1.7	.0	1.5	.0	82.8
TOT OBS:	1873														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	4.6	4.4	1.4	.0	.0	.0	.3	10.4	.3	.3	1.6	.0	1.4	.0	86.3
06009	4.4	5.2	1.7	.0	.0	.0	.0	11.3	.5	3.3	1.6	.0	1.4	.0	82.9
12015	5.5	3.8	.5	.0	.0	.0	.5	10.3	1.5	6.8	2.0	.0	.8	.0	80.4
18021	3.7	5.7	1.2	.0	.0	.0	.2	11.3	.7	3.0	1.7	.0	2.5	.0	82.0
TOT PCT	4.5	4.9	1.4	.0	.0	.0	.2	10.9	.7	3.4	1.7	.0	1.6	.0	82.8
TOT OBS:	1931														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+	00				03	06	09	12	15	18	21	
N	1.6	5.6	4.0	1.3	.1	.1		12.6	11.4		8.6	12.6	14.8	12.4	14.3	15.7	10.2	11.0
NE	.8	4.2	2.5	.8	.2	.0		8.4	11.7		10.0	6.5	10.9	10.8	13.8	9.0	6.0	4.2
E	.7	2.5	1.7	.3	.1	.0		5.3	10.5		4.5	4.9	5.6	6.7	6.4	5.8	5.7	2.6
SE	.9	4.0	2.2	.8	*	.0		7.8	10.4		6.1	5.9	11.8	10.2	8.5	7.2	6.1	6.1
S	1.7	5.5	4.7	2.4	.3	.3		14.9	14.0		18.0	14.8	16.6	16.6	14.7	15.8	12.1	13.1
SW	1.9	6.0	6.9	3.9	.8	.2		19.7	15.2		19.5	21.6	19.0	16.4	17.8	16.0	19.3	27.4
W	1.4	5.9	6.1	3.3	.7	*		17.5	14.6		21.6	18.0	12.4	13.5	12.0	20.6	23.0	19.3
NW	1.1	5.2	3.3	1.2	.3	*		11.1	12.0		9.8	13.6	7.7	8.8	10.3	8.4	15.4	12.4
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0		1.8	2.1	1.3	4.5	2.3	1.5	2.3	4.0
TOT OBS	336	1044	842	977	68	16	2683		12.8		110	470	399	420	177	338	442	327
TOT PCT	12.5	38.9	31.4	14.1	2.5	.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	3.7	6.1	2.1	.6	.1		12.6	11.4	11.8	13.6	15.2	10.6	
NE	2.2	4.4	1.2	.6	.0		8.4	11.7	7.2	10.8	10.7	5.2	
E	1.8	2.4	1.0	.1	*		5.3	10.5	4.9	6.1	6.0	4.4	
SE	2.9	3.4	1.4	.1	.0		7.8	10.4	5.9	11.0	7.7	6.1	
S	4.1	5.8	3.4	1.3	.4		14.9	14.0	15.4	16.6	15.4	12.5	
SW	4.2	7.2	5.6	2.3	.3		19.7	15.2	21.2	17.7	16.6	22.8	
W	3.8	6.7	5.3	1.6	.2		17.5	14.6	18.7	13.0	17.6	21.4	
NW	2.7	5.8	1.9	.5	.1		11.1	12.0	12.9	8.3	9.1	14.1	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.5						2.5	.0	2.1	2.9	1.7	3.0	
TOT OBS	753	1126	583	189	32	2683		12.8	580	819	515	769	
TOT PCT	28.1	42.0	21.7	7.0	1.2		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1855-1972

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)											
HOUR	CALM	WIND SPEED (KNOTS)						48+	MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47					
00003	2.1	14.7	35.3	31.2	12.4	3.6	.7	12.6	100.0	580	
06009	2.9	8.7	41.9	30.9	13.1	2.0	.6	12.3	100.0	819	
12015	1.7	4.3	41.4	32.4	16.7	2.7	.8	14.0	100.0	515	
18021	3.0	11.7	36.8	31.3	14.6	2.2	.4	12.5	100.0	769	
TOT	68	268	1044	842	377	68	16	12.8		2683	
PCT	2.5	10.0	38.9	31.4	14.1	2.5	.6		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS) BY WIND DIRECTION							MEAN CLOUD COVER
WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS		
N	5.3	1.7	2.9	2.9			4.0
NE	3.5	1.6	3.5	2.9			4.5
E	2.6	1.3	2.1	.8			3.9
SE	1.8	1.6	3.3	.8			4.5
S	4.0	3.9	5.4	1.3			4.2
SW	6.3	4.4	5.8	1.0			3.6
W	10.2	3.4	3.3	1.6			2.9
NW	4.0	1.1	2.1	2.2			4.0
VAR	.0	.0	.0	.0			.0
CALM	.6	.6	.4	.0			3.1
TOT OBS	193	99	145	67	504		3.8
TOT PCT	38.3	19.6	28.8	13.3	100.0		

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.4	.7	1.4	.7	.2	.0	.1	.0	9.1	
.0	.0	.2	1.4	1.5	.6	.5	.4	.4	.0	6.3	
.0	.0	.2	.8	.5	.0	.2	.2	.0	.0	4.8	
.0	.0	.0	.6	.7	.5	.0	.2	.0	.0	5.5	
.0	.0	.0	1.2	2.3	1.3	.1	.0	.0	.2	9.4	
.2	.0	.2	1.3	2.5	1.1	.2	.0	.0	.2	11.8	
.1	.0	.1	.8	1.7	.7	.0	.2	.0	.0	14.7	
.0	.0	.2	.7	.9	1.0	.0	.2	.0	.0	6.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.4	
.2	0	7	39	60	30	7	6	3	1	349	504
.4	.0	1.4	7.7	11.9	6.0	1.4	1.2	.6	.2	69.2	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	OR			VSBY (NM)			OR		
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0	
OR >6500	.8	.8	.8	.8	.8	.8	.8	.8	
OR >5000	1.6	2.0	2.0	2.0	2.0	2.0	2.0	2.0	
OR >3500	3.0	3.3	3.5	3.5	3.5	3.5	3.5	3.5	
OR >2000	6.9	9.6	9.8	9.8	9.8	9.8	9.8	9.8	
OR >1000	17.9	20.7	21.5	21.5	21.5	21.5	21.5	21.5	
OR >600	21.5	26.4	28.9	29.1	29.1	29.1	29.1	29.1	
OR >300	21.7	27.0	29.7	30.1	30.1	30.1	30.5	30.5	
OR >150	21.7	27.0	29.7	30.1	30.1	30.1	30.5	30.5	
OR >0	21.9	27.4	30.1	30.5	30.5	30.5	30.9	30.9	
TOTAL	111	139	153	155	155	155	157	157	

TOTAL NUMBER OF OBS: 508

PCT FREQ NH <5/8: 69.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
12.0	24.7	12.0	10.8	10.2	7.0	6.3	6.7	10.3	600

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1855-1972

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.1	.0	.0	.1	.0	.0	.1	.0	.0	.0	.2		
	NO PCP	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2		
	TOT %	.1	.0	.0	.1	.0	.0	.2	.0	.0	.0	.4		
1/2<1	PCP	*	*	*	.1	.0	.1	.0	.0	.0	.0	.3		
	NO PCP	.0	.1	.1	.1	.1	*	*	.0	.0	.1	.4		
	TOT %	*	.1	.1	.2	.1	.1	*	.0	.0	.1	.7		
1<2	PCP	.1	.1	.0	.0	.2	.1	.0	.0	.0	.0	.4		
	NO PCP	.2	.1	.0	.0	.0	.1	.1	.2	.0	.1	.6		
	TOT %	.2	.1	.0	.0	.2	.2	.1	.2	.0	.1	1.0		
2<5	PCP	.2	.2	*	.1	.2	.3	.1	.1	.0	.0	1.2		
	NO PCP	.2	.1	.1	.1	.6	.7	.3	.4	.0	.1	2.5		
	TOT %	.3	.3	.1	.1	.8	1.0	.4	.5	.0	.1	3.7		
5<10	PCP	.4	.8	.9	1.1	1.0	1.3	.6	.6	.0	.1	6.9		
	NO PCP	4.7	3.3	2.3	2.7	4.8	7.0	6.4	3.3	.0	1.3	36.0		
	TOT %	5.1	4.1	3.2	3.9	5.9	8.3	7.0	3.9	.0	1.4	42.8		
10+	PCP	.2	.2	.1	.2	.3	.5	.4	.1	.0	.1	1.9		
	NO PCP	6.4	4.2	2.5	3.4	6.6	9.5	10.1	5.8	.0	1.1	49.5		
	TOT %	6.5	4.3	2.6	3.6	6.9	10.0	10.4	5.9	.0	1.2	51.4		
TOT OBS														1872
TOT PCT		12.3	9.0	6.0	7.8	13.8	19.7	18.1	10.4	.0	2.8	100.0		

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	11-21	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*		
	22+	.1	.0	.0	.0	*	*	.1	.0	.0	.0	.3		
	TOT %	.1	.0	.0	*	*	*	.2	.0	.0	.0	.4		
1/2<1	0-3	.0	.1	*	.0	.0	.0	.0	.0	.0	.1	.3		
	4-10	.0	*	.0	.0	*	.1	*	.0	.0	.0	.2		
	11-21	*	*	.0	*	.0	.0	.0	.0	.0	.0	.1		
	22+	.0	.0	*	.1	.0	*	.0	.0	.0	.0	.2		
	TOT %	*	.1	.1	.2	*	.2	*	.0	.0	.1	.8		
1<2	0-3	*	.0	*	*	.2	.1	.1	.0	.0	.1	.7		
	4-10	.1	*	.0	.1	*	*	.0	.1	.0	.0	.4		
	11-21	.1	*	.0	.0	*	*	.1	.0	.0	.0	.4		
	22+	.0	*	.0	.0	*	.1	*	*	.0	.0	.2		
	TOT %	.2	.1	*	.2	.3	.3	.2	.2	.0	.1	1.6		
2<5	0-3	.1	*	.1	*	.4	.3	*	.2	.0	*	1.1		
	4-10	.1	.2	.0	.1	.2	.3	.1	.2	.0	.0	1.1		
	11-21	*	.0	.0	.0	*	.1	*	.1	.0	.0	.4		
	22+	.1	.2	*	.0	.1	.4	.2	.0	.0	.0	1.0		
	TOT %	.3	.4	.1	.1	.8	1.1	.4	.5	.0	*	3.6		
5<10	0-3	.7	.4	.3	.4	.9	1.1	.5	.4	.0	1.3	6.1		
	4-10	1.9	1.7	1.3	1.5	1.8	2.2	2.4	1.8	.0	.0	14.6		
	11-21	1.7	1.2	1.2	1.4	1.5	2.8	2.2	1.0	.0	.0	13.0		
	22+	.4	.5	.1	.4	1.1	1.6	1.4	.4	.0	.0	6.1		
	TOT %	4.7	3.9	2.9	3.7	5.4	7.7	6.3	3.6	.0	1.3	39.7		
10+	0-3	.7	.3	.2	.5	.6	.6	.8	.5	.0	1.2	5.3		
	4-10	3.3	2.3	1.5	2.2	3.1	3.7	3.3	3.1	.0	.0	22.8		
	11-21	2.0	1.6	.8	.9	2.7	3.6	4.3	1.9	.0	.0	17.7		
	22+	.8	.3	.1	.4	1.2	2.4	2.0	.7	.0	.0	8.0		
	TOT %	6.8	4.5	2.6	4.0	7.6	10.4	10.6	6.2	.0	1.2	53.8		
TOT OBS														2061
TOT PCT		12.2	9.0	5.8	8.2	14.2	19.5	17.9	10.4	.0	2.8	100.0		

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PERIOD: (PRIMARY) 1904-1972
(OVER-ALL) 1855-1972AREA 0007 SYDNEY
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	100 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	2.7	6.3	7.1	4.5	3.6	.0	.9	.9	25.9	74.1	112
06009	.0	.0	.8	6.8	9.8	6.8	1.5	1.5	.0	.0	27.1	72.9	133
12015	1.1	.0	1.7	7.4	11.4	5.7	.6	1.7	.6	.0	30.3	69.7	175
18021	.0	.0	.0	6.4	12.2	5.1	.6	.6	.6	.0	25.6	74.4	156
TOT	2	0	7	39	60	32	8	6	3	1	158	418	576
PCT	.3	.0	1.2	6.8	10.4	5.6	1.4	1.0	.5	.2	27.4	72.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.5	1.1	1.3	2.1	35.0	59.9	374
06009	.3	1.0	3.1	6.6	44.1	44.8	669
12015	.5	.2	.7	2.3	35.0	61.3	431
18021	.3	.6	.8	2.5	42.9	52.9	645
TOT	8	16	34	78	854	1129	2119
PCT	.4	.8	1.6	3.7	40.3	53.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HRUR (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	3.0	12.1	18.2	69.7	99
06009	.0	.9	10.0	22.7	67.3	110
12015	1.2	3.1	12.4	20.5	67.1	161
18021	.0	.0	7.2	21.0	71.7	138
TOT	2	9	53	105	350	508
PCT	.4	1.8	10.4	20.7	68.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.1	.0	.0	.0	.0	1	.1
70/74	.0	.1	.0	.7	.3	.2	.2	.2	20	1.7
65/69	.0	.3	.6	2.3	3.7	3.0	1.9	1.3	153	13.0
60/64	.0	.1	1.2	4.8	12.6	11.6	7.9	2.7	482	40.9
55/59	.0	.1	.7	3.4	9.5	12.1	6.9	2.6	416	35.3
50/54	.0	.0	.3	.4	1.9	1.2	2.6	1.5	93	7.9
45/49	.0	.0	.0	.0	.0	.2	.4	.5	13	1.1
TOTAL	0	7	32	137	330	334	234	104	1178	100.0
PCT	.0	.6	2.7	11.6	28.0	28.4	19.9	8.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0
70/74	.4	.1	.1	.0	.1	.1	.6	.1	.0	.2
65/69	4.0	1.7	.6	.5	1.0	1.0	1.5	2.5	.0	.3
60/64	5.5	5.9	3.2	2.9	3.2	5.9	6.6	4.4	.0	1.4
55/59	2.0	1.7	1.1	3.4	6.5	9.9	6.8	2.1	.0	2.0
50/54	.2	.1	.0	.7	.4	2.3	3.4	.4	.0	.5
45/49	.0	.0	.0	.2	.2	.3	.3	.0	.0	.2
TOTAL	12.0	9.5	5.1	7.6	13.3	19.5	19.1	9.5	.0	4.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	75	73	69	61	55	51	47	61.7	560
06009	75	71	68	60	55	53	50	60.9	812
12015	78	68	66	60	54	51	45	59.7	518
18021	73	68	65	59	52	48	45	58.5	762
TOT	78	71	67	60	54	50	45	60.2	2652

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	22.2	28.4	23.5	18.5	7.4	70	243		
06009	.0	16.0	30.0	28.1	18.2	7.7	71	363		
12015	.0	16.2	28.6	25.7	21.2	8.3	72	241		
18021	.0	9.3	23.9	32.4	23.1	11.3	75	364		
TOT	0	185	334	339	246	107	72	1211		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WG FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.0	.3	.1	.1	.1	8	.0	.6
7/8	.0	.0	.0	.1	.2	.5	.3	.1	16	.0	1.1
6	.0	.0	.0	.1	.3	.4	.1	.0	12	.0	.9
5	.0	.0	.0	.1	.2	.5	.2	.0	14	.1	.9
4	.0	.0	.1	.2	.9	1.1	.4	.0	39	.0	2.8
3	.0	.0	.0	.1	.3	.7	.1	.0	16	.0	1.1
2	.0	.0	.1	.5	2.0	1.5	.1	.1	60	.1	4.1
1	.0	.0	.1	.9	2.6	1.4	.1	.0	71	.1	5.0
0	.0	.1	.3	2.2	4.0	2.3	.1	.0	126	.1	8.8
-1	.0	.1	.3	3.6	3.3	1.1	.1	.0	120	.3	8.2
-2	.0	.0	.9	3.6	4.6	1.1	.0	.0	145	.4	9.9
-3	.0	.2	.9	4.8	3.9	.4	.1	.0	145	.3	10.0
-4	.0	.1	.8	6.4	4.1	.4	.0	.0	180	.1	12.7
-5	.0	.1	1.5	6.3	2.4	.1	.1	.0	151	.0	10.7
-6	.0	.1	1.2	4.1	1.1	.0	.0	.0	93	.0	6.6
-7/-8	.2	.4	2.8	5.2	1.1	.1	.0	.0	138	.1	9.7
-9/-10	.3	.4	1.1	1.4	.2	.0	.0	.0	47	.1	3.3
-11/-13	.0	.2	.6	.6	.1	.0	.0	.0	22	.0	1.6
-14/-16	.0	.1	.0	.1	.0	.0	.0	.0	2	.0	.1
-17/-19	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	7	28	167	564	166	166	25	4	1407	25	1382
PCT	.5	2.0	11.9	40.1	31.7	11.8	1.8	.3	100.0	1.8	98.2

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.2	.0	.0	.0	.0	.7	.0	1.2	.3	.0	.0	.0	1.4
1-2	.0	2.9	.7	.0	.0	.0	3.6	.0	2.9	.1	.0	.0	.0	3.0
3-4	.0	2.7	1.4	.7	.0	.0	4.8	.0	2.0	1.9	.3	.0	.0	4.2
5-6	.0	.0	1.5	.3	.0	.0	1.8	.0	.3	1.8	.6	.0	.0	2.7
7	.0	.0	.0	.3	.0	.3	.5	.0	.0	.6	.0	.3	.0	.9
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.8	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.8	3.9	2.3	.0	.3	12.8	.0	6.4	4.7	2.2	.3	.0	13.7

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.2	.0	.0	.0	.0	.2	.3	1.2	.0	.0	.0	.0	1.5
1-2	.0	1.6	1.1	.0	.0	.0	2.6	.0	.9	.3	.0	.0	.0	1.2
3-4	.0	.9	1.0	.0	.0	.0	2.0	.3	.3	.4	.3	.0	.0	1.3
5-6	.0	.3	.2	1.0	.0	.0	1.5	.0	.3	.3	.0	.0	.0	.5
7	.0	.0	.5	.0	.2	.0	.7	.0	.0	.6	.3	.0	.0	.9
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.5	2.7	1.6	.6	.0	.0	5.4
TOT PCT	.0	3.0	3.0	1.0	.2	.0	7.2	.5	2.7	1.6	.6	.0	.0	5.4

PERIOD: (OVER-ALL) 1963-1972

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.9	.2	.0	.0	.0		1.2	.3	1.1	.1	.0	.0	.0		1.4
1-2	.5	2.4	.5	.0	.0	.0		3.5	.0	1.2	1.3	.0	.0	.0		2.4
3-4	.0	1.6	1.7	.5	.0	.0		3.7	.0	1.4	2.2	.1	.0	.0		3.7
5-6	.0	.0	1.4	.9	.2	.0		2.5	.0	.3	1.7	.2	.1	.0		2.2
7	.2	.0	1.7	.5	.2	.0		2.6	.3	.0	1.0	.3	.3	.1		2.1
8-9	.0	.0	.3	.0	.3	.0		.5	.0	.0	.0	.8	.2	.0		1.0
10-11	.0	.0	.0	.7	.0	.0		.7	.0	.0	.0	1.0	.3	.0		1.3
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
13-16	.0	.0	.0	.4	.0	.0		.4	.0	.0	.0	.3	.0	.0		.3
17-19	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.1	.0	.0		.1
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.7	4.9	5.8	3.4	.7	.0		15.6	.6	3.9	6.3	2.8	.9	.1		14.6

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	.8	.0	.0	.0	.0		1.0	.1	.9	.0	.0	.0	.0		.9	
1-2	.3	1.2	1.4	.0	.0	.0		2.9	.0	2.6	.8	.0	.0	.0		3.5	
3-4	.0	2.1	4.2	.0	.0	.0		6.3	.0	.8	1.5	.1	.0	.0		2.4	
5-6	.0	.9	2.2	.8	.0	.0		4.0	.0	.4	.1	.0	.0	.0		.5	
7	.0	.0	1.6	.5	.3	.2		2.6	.0	.0	.0	.5	.0	.0		.5	
8-9	.0	.0	.0	.0	.6	.0		.6	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.5	.2	.0		.7	.0	.0	.0	.5	.1	.0		.6	
12	.0	.0	.3	.0	.2	.0		.5	.0	.0	.0	.0	.3	.0		.3	
13-16	.0	.0	.3	.0	.0	.0		.3	.0	.0	.0	.3	.0	.0		.3	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.3	.0		.3	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.5	5.1	10.0	1.8	1.6	.2		19.1	.1	4.7	2.4	1.5	.4	.0		9.1	97.6

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.8	6.4	.5	.0	.0	.0	11.8	
1-2	.8	15.5	6.2	.0	.0	.0	22.5	
3-4	.3	11.8	14.2	1.9	.0	.0	28.2	
5-6	.0	2.4	9.1	3.8	.3	.0	15.5	
7	.5	.0	5.9	2.4	1.3	.5	10.7	
8-9	.0	.0	.8	1.1	1.1	.0	2.9	
10-11	.0	.0	.0	3.2	.5	.0	3.8	
12	.0	.0	.3	1.3	.5	.0	2.1	
13-16	.0	.0	.3	1.1	.0	.0	1.3	
17-19	.0	.0	.0	.5	.0	.0	.5	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.4	36.2	37.3	15.5	4.0	.5	100.0	373

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.9	5.4	9.7	3.9	1.9	1.9	1.7	.6	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	130	4
6-7	.0	.0	4.8	10.6	7.3	2.6	2.6	1.3	1.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	143	7
8-9	.0	.0	3.9	3.7	6.3	3.0	2.6	1.3	1.5	1.3	.4	.4	.0	.0	.0	.0	.0	.0	.0	113	8
10-11	.0	.2	1.7	1.1	.9	1.9	.2	.6	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	8
12-13	.0	.0	.4	.0	.2	.0	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	6	9
>13	.0	.0	.0	.0	.2	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	11
INDET	1.3	1.3	1.1	.4	.9	.2	.6	.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	31	5
TOTAL	15	32	100	91	82	45	37	19	28	9	3	2	0	0	0	0	0	0	0	463	6
PCT	3.2	6.9	21.6	19.7	17.7	9.7	8.0	4.1	6.0	1.9	.6	.4	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1909-1972
(OVER-ALL) 1855-1972

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	1.6	4.2	1.7	.0	.0	.0	.3	7.9	.8	4.2	7.6	.0	1.4	.0	78.4
NE	4.4	2.2	.4	.0	.0	.0	.0	7.1	.7	4.6	2.9	.0	4.7	.0	82.2
E	11.4	1.3	3.1	.0	.0	.0	.0	15.2	1.8	5.8	7.4	.0	2.0	.0	68.8
SE	6.3	7.0	1.7	.0	.0	.0	.0	14.8	.6	3.3	4.6	.0	.0	.0	77.4
S	4.1	7.1	.8	.0	.0	.0	.3	12.3	2.3	2.1	1.2	.2	1.2	.0	80.7
SW	6.0	5.3	.4	.0	.0	.0	.0	11.6	1.2	6.6	2.4	.1	1.8	.0	77.6
W	6.5	1.9	.0	.0	.0	.0	.0	8.4	1.1	6.6	6.6	.0	5.4	.0	74.8
NW	2.4	1.9	1.0	.0	.0	.0	.0	5.3	.2	3.4	9.7	.0	4.4	.6	77.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	4.4	.0	.0	.0	.0	4.4	2.2	.0	2.2	.0	15.6	.0	75.6
TOT PCT	4.6	4.1	1.1	.0	.0	.0	.1	9.9	1.2	4.4	4.8	.1	2.9	.1	77.9
TOT OBS:	1766														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG BLWG	DUST DUST SNOW	NO SIG WEA
00003	5.7	1.7	.6	.0	.0	.0	.6	8.5	.9	1.4	2.6	.0	5.1	.3		81.8
06009	4.1	3.4	1.6	.0	.0	.0	.0	9.0	.9	3.4	6.2	.0	2.3	.0		79.4
12015	4.9	4.2	1.0	.0	.0	.0	.0	9.8	2.0	7.4	3.2	.0	1.0	.0		77.9
18021	4.4	6.1	1.3	.0	.0	.0	.0	11.8	.9	4.9	6.6	.2	3.2	.0		73.4
TOT PCT TOT OBS:	4.6 1852	4.0	1.2	.0	.0	.0	.1	9.9	1.1	4.3	5.0	.1	2.8	.1		77.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.1	6.3	6.7	2.3	.1	.1		16.7	13.2		18.7	15.2	13.8	16.2	15.8	19.5	17.8	17.6
NE	1.0	6.2	4.9	.7	.1	.0		12.9	11.0		5.9	12.3	19.5	16.5	14.7	15.2	10.3	3.6
E	1.0	3.3	1.8	.3	.1	.0		6.4	9.9		5.7	4.5	8.4	9.3	8.3	8.0	5.1	1.9
SE	.5	4.1	2.8	.8	.1	.0		8.3	11.7		7.1	6.4	8.3	11.9	8.5	9.8	6.6	7.3
S	1.4	5.6	6.9	2.5	.5	.0		16.9	13.9		19.1	18.4	19.4	17.0	20.4	13.9	13.7	16.7
SW	1.0	4.3	5.0	2.8	.8	.0		13.9	15.6		16.0	13.9	13.6	10.0	16.8	12.1	17.0	14.4
W	1.5	3.9	4.2	2.1	.5	*		12.2	13.8		13.2	14.8	9.4	9.5	9.7	9.5	13.2	18.8
NW	.8	4.2	3.3	1.0	.2	.0		9.6	12.0		11.8	10.4	6.9	6.0	4.3	11.0	13.5	12.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.1							3.1	.0		2.5	4.1	.8	3.7	1.5	1.2	2.9	7.4
TOT OBS	286	957	899	317	62	3	2524		12.6		119	393	356	407	199	333	421	296
TOT PCT	11.3	37.9	35.6	12.6	2.5	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00 03	06 09	12 15	18 21	
N	4.2	6.8	4.6	.9	.1		16.7	13.2	16.0	15.1	18.1	17.7	
NE	3.4	7.0	2.3	.3	.0		12.9	11.0	10.8	17.9	15.0	7.5	
E	2.6	2.7	.8	.1	.1		6.4	9.9	4.7	8.9	8.1	3.8	
SE	2.2	4.4	1.1	.6	.0		8.3	11.7	6.6	10.2	9.3	6.9	
S	3.7	6.9	5.0	1.3	.1		16.9	13.9	18.6	18.1	16.3	14.9	
SW	2.7	5.2	4.1	1.8	.1		13.9	15.6	14.4	11.7	13.9	15.9	
W	3.5	4.4	2.6	1.3	.1		12.2	13.8	14.4	9.4	9.5	15.5	
NW	2.7	4.6	1.8	.5	*		9.6	12.0	10.7	6.4	8.5	13.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.1						3.1	.0	3.7	2.4	1.3	4.7	
TOT OBS	710	1061	571	170	12	2524		12.6	512	763	532	717	
TOT PCT	28.1	42.0	22.6	6.7	.5		100.0		100.0	100.0	100.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1909-1972
(OVER-ALL) 1855-1972

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
0000	3.7	10.5	37.9	31.4	14.3	2.0	.2	12.2	100.0	512
0600	2.4	8.4	36.2	38.1	12.2	2.5	.3	13.0	100.0	763
1200	1.3	4.1	40.8	36.3	14.5	3.0	.0	13.3	100.0	592
1800	4.7	9.5	37.7	35.4	10.3	2.4	.0	11.8	100.0	717
TOT	78	208	957	899	317	82	3	12.6		2924
PCT	3.1	8.2	37.9	35.6	12.6	2.5	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.7	2.7	2.6	2.3		3.0
NE	5.0	1.6	2.6	1.4		3.3
E	1.9	1.1	1.9	2.2		4.9
SE	1.6	1.1	2.4	2.3		5.3
S	5.8	3.1	8.0	2.3		4.4
SW	4.7	2.9	7.0	1.9		4.5
W	5.4	2.6	2.3	1.4		3.3
NW	3.5	1.5	2.9	1.0		3.9
VAR	.0	.0	.0	.0		.0
CALM	.9	.4	.2	.4		3.0
TOT OBS	204	92	164	83	543	4.0
TOT PCT	37.6	16.9	30.2	15.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3999	6499	7999				
.0	.0	.4	.5	1.7	.4	.2	.2	.0	.2	12.9	
.0	.0	.1	.1	1.5	.6	.4	.0	.0	.0	7.9	
.0	.0	.5	1.0	.4	1.0	.1	.1	.0	.0	4.1	
.0	.0	.2	1.0	1.2	1.2	.5	.0	.0	.0	3.3	
.0	.0	.2	2.7	3.5	1.2	.5	.1	.2	.0	11.0	
.0	.0	.2	1.7	2.9	1.5	.0	.1	.0	.0	10.3	
.0	.2	.1	.6	1.0	1.0	.0	.0	.0	.0	8.9	
.0	.0	.6	.6	1.2	.4	.0	.0	.2	.0	6.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	
.0	.0	.0	.2	.2	.2	.0	.0	.0	.0	3.6	
.0	.1	.9	.45	.70	.45	.11	.3	.1	.2	54.3	
.0	.2	1.7	8.3	12.9	8.3	2.0	.6	.2	.4	65.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.2	.5	.5	.5	.5	.5	.5	.5
>5000	.5	1.3	1.3	1.3	1.3	1.3	1.3	1.3
>3500	2.1	3.8	3.8	3.8	3.8	3.8	3.8	3.8
>2000	8.0	11.3	11.8	11.8	11.8	11.8	11.8	11.8
>1000	17.7	23.6	24.3	24.3	24.3	24.3	24.3	24.3
>600	22.0	31.6	32.5	32.5	32.5	32.5	32.5	32.5
>300	23.4	32.7	33.6	34.1	34.1	34.1	34.1	34.1
>150	23.4	32.9	33.8	34.3	34.3	34.3	34.3	34.3
>0	23.4	32.9	33.8	34.3	34.3	34.3	34.3	34.3
TOTAL	131	184	189	192	192	192	192	192

TOTAL NUMBER OF OBS: 560

PCT FREQ NH <5/8: 65.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.3	16.9	11.9	11.1	8.5	7.0	8.3	8.0	11.1	.0	614

SEPTEMBER

PERIOD: (PRIMARY) 1909-1972
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	NO PCP	.0	.1	.1	.0	.0	.1	.0	.0	.0	.0	.2	
	TOT %	.0	.1	.1	.0	.1	.1	.0	.0	.0	.0	.2	
1/2<1	PCP	.0	*	*	.0	.0	.1	.0	.0	.0	.0	.2	
	NO PCP	1.0	.2	.0	.1	.1	.1	.5	.3	.0	.0	2.3	
	TOT %	1.0	.2	*	.1	.1	.2	.5	.3	.0	.0	2.5	
1<2	PCP	.0	*	.1	*	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.1	.3	.1	.0	.0	.1	.2	.2	.0	.1	1.1	
	TOT %	.1	.3	.2	*	.1	.1	.2	.2	.0	.1	1.3	
2<5	PCP	.1	.1	.1	*	.2	.1	.1	*	.0	.0	.7	
	NO PCP	.2	.3	.3	.2	.2	.3	.5	.2	.0	.2	2.3	
	TOT %	.3	.3	.4	.2	.4	.4	.6	.2	.0	.2	3.0	
5<10	PCP	1.2	.7	.7	.8	1.5	1.0	.7	.4	.0	.1	7.1	
	NO PCP	6.6	5.1	2.0	3.0	6.0	5.1	3.9	3.0	.0	.5	33.1	
	TOT %	7.9	5.8	2.7	3.9	7.5	6.1	4.5	3.4	.0	.5	42.2	
10+	PCP	*	.1	.1	.2	.5	.4	.3	.0	.0	.1	1.6	
	NO PCP	8.1	5.8	2.9	3.2	9.7	6.7	6.4	4.7	.0	1.6	49.2	
	TOT %	8.2	5.9	2.9	3.5	10.1	7.1	6.7	4.7	.0	1.7	50.7	
TOT OBS													1766
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	*	.0	.1	.0	.0	.1	.0	*	.0	.0	.2	
	11-21	.0	.1	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	*	.1	.1	.0	.1	.1	.0	*	.0	.1	.3	
1/2<1	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.4	.1	.0	*	*	.1	.0	.1	.0	.0	.6	
	11-21	.4	.1	*	.0	.1	.1	.1	.1	.0	.0	1.0	
	22+	.2	.0	.0	.0	*	*	.3	.1	.0	.0	.7	
	TOT %	.9	.2	*	.1	.1	.2	.5	.3	.0	.0	2.3	
1<2	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.1	.2	
	4-10	.0	.2	.1	.0	.1	.1	.0	.1	.0	.0	.4	
	11-21	.1	*	.0	.0	.0	.1	*	.1	.0	.0	.3	
	22+	.0	.1	.1	*	.1	.1	.1	*	.0	.0	.5	
	TOT %	.1	.3	.2	*	.1	.2	.1	.1	.0	.1	1.3	
2<5	0-3	.0	.1	.2	.1	.1	*	.3	*	.0	.2	1.1	
	4-10	.2	.1	.1	*	.0	.0	.1	.1	.0	.0	.7	
	11-21	*	.1	.2	.1	.2	.2	.1	.0	.0	.0	.8	
	22+	*	.1	*	*	.1	.2	*	.1	.0	.0	.5	
	TOT %	.3	.4	.4	.3	.4	.4	.5	.2	.0	.2	3.1	
5<10	0-3	.5	.3	.4	.2	.3	.2	.2	.4	.0	.5	3.0	
	4-10	1.9	2.5	1.0	1.6	2.2	1.5	1.0	1.1	.0	.0	12.8	
	11-21	3.2	2.2	.9	1.4	2.8	2.4	1.7	1.3	.0	.0	13.9	
	22+	1.6	.4	.3	.5	1.6	1.6	1.3	.5	.0	.0	7.7	
	TOT %	7.2	5.3	2.6	3.8	7.0	5.6	4.2	3.3	.0	.5	39.5	
10+	0-3	.5	.6	.6	.1	.8	.6	1.0	.3	.0	2.1	6.5	
	4-10	3.4	3.0	2.0	2.4	3.7	2.4	2.3	2.6	.0	.0	21.8	
	11-21	3.4	2.3	.8	1.1	4.3	2.6	2.4	1.7	.0	.0	18.6	
	22+	1.1	.4	.1	.3	1.5	2.2	.9	.4	.0	.0	6.8	
	TOT %	8.4	6.3	3.4	3.9	10.2	7.7	6.6	4.9	.0	2.1	53.6	
TOT OBS													1966
TOT PCT													100.0

SEPTEMBER

PERIOD: (PRIMARY) 1909-1972
(OVER-ALL) 1855-1972

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	3.1	11.5	10.0	10.8	3.8	.8	.0	.8	40.8	59.2	130
06009	.0	.0	.8	10.8	10.8	6.9	1.5	.0	.0	.0	30.8	69.2	130
12015	.0	.0	1.6	5.3	13.8	8.5	1.6	1.1	.0	.5	32.4	67.6	188
18021	.0	.7	.7	4.8	11.6	4.1	2.7	.7	.7	.0	25.9	74.1	147
TOT	0	1	9	46	70	45	14	4	1	2	192	403	595
PCT	.0	.2	1.5	7.7	11.8	7.6	2.4	.7	.2	.3	32.3	67.7	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.3	1.6	1.1	1.1	35.1	60.8	367
06009	.2	3.7	1.2	5.4	45.9	43.6	647
12015	.0	.9	.9	2.9	35.7	59.7	454
18021	.7	2.7	1.5	1.5	41.1	52.4	586
TOT	6	50	25	61	829	1083	2054
PCT	.3	2.4	1.2	3.0	40.4	52.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	3.3	16.3	27.6	56.1	123
06009	.0	.8	13.3	20.0	66.7	120
12015	.0	1.7	9.0	25.3	65.7	178
18021	.0	1.4	7.2	20.9	71.9	139
TOT	0	10	62	132	366	560
PCT	.0	1.8	11.1	23.6	65.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.1	.0	.3	.0	.0	.0	.0	4	.3
74/79	.0	.0	.1	.7	.2	.1	.1	.0	13	1.1
70/74	.0	.2	.3	1.0	2.7	1.5	.6	.3	77	6.6
65/69	.0	.3	.5	2.6	5.0	6.3	8.8	4.6	328	28.2
60/64	.0	.1	1.3	3.5	8.8	11.8	11.8	4.2	482	41.4
55/59	.0	.0	.3	2.2	4.2	6.0	5.8	1.5	233	20.0
50/54	.0	.0	.0	.4	.5	.4	1.0	.0	28	2.4
TOTAL	0	8	28	125	248	304	327	125	1165	100.0
PCT	.0	.7	2.4	10.7	21.3	26.1	28.1	10.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	.0	.0	.0	.2	.0	.2
74/79	.1	.2	.2	.0	.1	.0	.3	.0	.0	.3
70/74	1.1	1.1	.5	.4	.6	.6	1.2	.6	.0	.5
65/69	7.6	4.7	1.5	.8	2.7	1.8	3.9	3.8	.0	1.3
60/64	7.2	5.3	3.4	3.8	7.4	5.2	4.9	3.0	.0	1.1
55/59	1.5	.5	.8	2.3	5.2	6.0	2.2	.8	.0	.8
50/54	.0	.0	.0	.1	.8	.9	.6	.0	.0	.0
TOTAL	17.4	11.8	6.4	7.4	16.7	14.5	13.1	8.5	.0	4.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	76	72	64	56	53	50	64.0	515
06009	81	75	71	63	56	54	49	63.4	763
12015	74	70	68	62	56	54	51	61.9	540
18021	80	73	68	61	55	52	49	61.3	739
TOT	81	74	70	62	56	53	49	62.6	2557

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	20.1	24.6	20.9	28.3	6.1	71	244
06009	.0	15.5	19.3	28.9	23.2	13.1	74	336
12015	.0	11.0	20.2	30.1	27.0	11.7	73	282
18021	.0	10.1	21.3	25.1	32.6	11.0	76	347
TOT	0	167	256	320	336	130	74	1209

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PERIOD: (PRIMARY) 1909-1972
(OVER-ALL) 1855-1972

TABLE 17

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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WO FOG
14/16	.0	.0	.0	.0	.0	.1	.0	.1		2	.0	.1
11/13	.0	.0	.0	.0	.0	.1	.1	.0		3	.0	.2
9/10	.0	.0	.0	.2	.1	.3	.2	.0		11	.1	.7
7/8	.0	.0	.0	.3	.3	1.0	.3	.0		26	.1	1.9
6	.0	.0	.1	.1	.4	.0	.0	.0		8	.1	.5
5	.0	.0	.0	.6	1.3	.7	.1	.0		36	.5	2.2
4	.0	.0	.3	.4	1.7	.6	.0	.0		41	.4	2.7
3	.0	.1	.3	1.3	2.7	.8	.0	.0		71	.4	4.9
2	.0	.1	.4	2.7	3.6	.5	.0	.0		99	.6	6.8
1	.0	.1	.6	3.0	3.7	.5	.1	.1		110	.7	7.4
0	.0	.1	1.2	6.5	3.6	.4	.1	.0		158	.6	11.1
-1	.0	.3	2.4	4.5	2.0	.5	.0	.0		130	1.1	8.5
-2	.0	.5	2.6	5.6	1.6	.1	.0	.0		141	.4	10.1
-3	.0	.4	3.8	2.5	1.3	.0	.0	.0		108	.2	7.0
-4	.1	.6	3.3	4.2	.9	.0	.0	.0		121	.2	8.8
-5	.0	.7	3.7	2.3	1.0	.0	.0	.0		103	.4	7.3
-6	.0	.4	1.5	1.0	.1	.0	.0	.0		41	.1	3.0
-7/-8	.2	1.6	2.9	1.6	.1	.0	.0	.0		87	.1	6.3
-9/-10	.1	.9	1.2	.3	.0	.0	.0	.0		33	.0	2.4
-11/-13	.3	.2	.6	.0	.0	.0	.0	.0		13	.0	1.1
-14/-16	.1	.2	.0	.0	.0	.0	.0	.0		4	.0	.3
TOTAL	10		333		331		13		1	1348		1268
PCT	.7	6.1	24.7	37.2	24.6	5.6	1.0	.1	.1	100.0	5.9	94.1

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.8	.0	.0	.0	.0	.8	.0	.1	.0	.0	.0	.0	.1
1-2	.0	2.5	1.8	.0	.0	.0	4.3	.2	3.2	.6	.0	.0	.0	4.0
3-4	.0	1.3	4.1	.0	.0	.0	5.6	.0	1.1	2.3	.0	.2	.0	3.4
5-6	.0	.0	1.5	.2	.0	.0	1.7	.0	.0	.8	.0	.1	.0	1.1
7	.0	.0	1.5	1.5	.2	.0	3.2	.0	.0	.3	.0	.1	.0	.3
8-9	.0	.0	.0	.7	.0	.0	.7	.0	.0	.5	.1	.0	.0	.5
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.1	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.2	4.3	4.4	.3	.3	.0	9.7
TOT PCT	.0	4.7	8.9	3.7	.2	.0	17.6	.2						

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.9	.8	.0	.0	.0	.0	1.7	.0	.1	.0	.0	.0	.0	.1
1-2	.0	2.1	.0	.0	.0	.0	2.1	.1	1.9	.0	.0	.0	.0	1.9
3-4	.2	.6	.8	.0	.0	.0	1.7	.0	1.1	.9	.0	.0	.0	2.0
5-6	.0	.6	.6	.0	.0	.0	1.2	.0	.3	1.0	.0	.0	.0	1.5
7	.0	.0	.4	.0	.0	.0	.4	.0	.0	.3	.0	.0	.0	1.1
8-9	.0	.0	.0	.2	.2	.0	.4	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
12	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.1	.0	.0	.0	.0	.0	.0	.1	3.6	2.3	.8	.0	.0	6.9
TOT PCT	1.1	4.2	1.9	.2	.7	.0	8.0	.1						

PERIOD: (OVER-ALL) 1963-1977

SEPTEMBER
TABLE 18 (CONT)AREA 0007 SYDNEY
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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.5	1.0	.0	.0	.0	.0		1.5	.0	.2	.0	.0	.0	.0		.2
1-2	.2	1.6	.4	.0	.0	.0		2.2	.2	1.0	1.0	.0	.0	.0		2.1
3-4	.0	1.9	4.7	.0	.0	.0		6.6	.0	1.5	1.2	1.0	.0	.0		3.7
5-6	.0	.2	1.6	1.3	.0	.0		3.2	.0	.2	1.9	1.0	.5	.0		3.6
7	.0	.2	1.6	.8	.0	.0		2.6	.0	.1	1.2	.6	.0	.0		1.9
8-9	.0	.0	.3	.3	.0	.0		.7	.0	.0	.7	1.2	.2	.0		2.2
10-11	.0	.0	.5	.0	.2	.0		.7	.0	.0	.0	1.1	.0	.0		1.1
12	.0	.0	.5	.2	.0	.0		.7	.0	.0	.1	.1	.2	.0		.3
13-16	.0	.0	.6	.6	.0	.0		1.2	.0	.0	.0	.0	.1	.0		.1
17-19	.0	.0	.0	.0	.2	.0		.5	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.2	2.9	6.1	5.0	1.0	.0		15.2
TOT PCT	.6	4.9	10.2	3.6	.6	.0		19.9								

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.6	.2	.2	.0	.0	.0		1.1	.5	1.0	.0	.0	.0	.0		1.5	
1-2	.2	1.9	.7	.0	.0	.0		2.8	.2	2.3	.3	.0	.0	.0		2.9	
3-4	.2	.8	1.7	.2	.0	.0		2.9	.1	.3	1.1	.0	.0	.0		1.5	
5-6	.0	.0	2.7	.2	.0	.0		2.8	.0	.5	.9	.2	.0	.0		1.6	
7	.0	.0	1.2	.2	.0	.0		1.4	.0	.0	.3	.1	.0	.0		.4	
8-9	.0	.0	.2	.2	.0	.0		.5	.0	.0	.0	.2	.0	.0		.2	
10-11	.0	.0	.0	.7	.0	.0		.7	.0	.0	.2	.0	.2	.0		.5	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.0	.0		.1	
13-16	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.8	4.1	2.9	.6	.2	.0		8.6	98.2
TOT PCT	1.0	2.9	6.7	1.6	.0	.0		12.3									

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.5	4.5	.2	.0	.0	.0	9.2	
1-2	1.1	16.4	4.7	.0	.0	.0	22.2	
3-4	.7	8.7	16.8	1.1	.0	.0	27.4	
5-6	.0	2.0	11.0	2.9	.7	.0	16.6	
7	.0	.2	7.0	3.8	.2	.0	11.2	
8-9	.0	.0	1.8	2.9	.4	.0	5.2	
10-11	.0	.0	.7	2.5	.0	.0	3.6	
12	.0	.0	.4	.7	.0	.0	1.1	
13-16	.0	.0	.7	1.6	.7	.0	2.9	
17-19	.0	.0	.0	.0	.2	.0	.2	
20-22	.0	.0	.0	.2	.0	.0	.4	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	446
TOT PCT	6.3	31.8	43.3	15.7	2.9	.0	100.0	

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	7.6	13.0	5.6	4.1	1.2	.6	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	177	4
6-7	.0	1.4	6.6	7.6	7.0	2.7	2.7	.8	2.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	161	6
8-9	.0	.2	.8	1.7	3.1	2.9	3.1	1.2	2.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	81	9
10-11	.0	.4	.0	1.0	1.6	2.1	1.6	.4	1.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	43	8
12-13	.0	.0	.0	.6	.2	.2	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	9
>13	.0	.0	.0	.0	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	42	3
INDET	1.9	2.9	.6	1.6	.8	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	315	6
TOTAL PCT	3.3	12.4	21.0	18.1	16.7	9.7	8.3	3.1	6.2	.6	.4	.2	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1913-1972
(OVER-ALL) 1861-1972AREA 0007 SYDNEY
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	
N	2.7	1.3	1.7	.0	.0	.0	.8	6.0	1.2	3.1	6.0	.0	4.1	.0		78.1
NE	3.5	1.4	2.3	.0	.0	.0	.2	7.3	1.1	3.2	4.0	.0	4.4	.0		80.5
E	6.2	.9	.7	.0	.0	.0	.5	8.3	.7	1.4	3.7	.0	1.1	.0		83.6
SE	4.1	3.3	5.4	.0	.0	.0	.1	12.9	1.3	1.6	4.0	.0	1.3	.0		80.0
S	5.3	5.9	1.1	.0	.0	.0	.0	12.3	2.5	1.8	4.8	.0	1.8	.0		77.4
SW	3.2	4.4	1.0	.0	.0	.0	.0	8.2	2.1	3.4	1.6	.0	.9	.0		84.6
W	2.6	3.6	.8	.0	.0	.0	.0	6.9	2.0	7.3	3.0	.0	3.6	.0		77.9
NW	3.1	1.8	.4	.0	.0	.0	.0	5.3	1.3	7.3	5.1	.0	4.0	.0		77.8
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		.0
CALM	5.7	.0	.0	.0	.0	.0	.0	5.7	.0	.0	2.9	.0	25.7	.0		65.7
TOT PCT	3.9	2.9	1.7	.0	.0	.0	.2	8.7	1.6	3.5	4.3	.0	3.2	.0		79.5
TOT OBS:	1733															

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG	DUST SNOW	
00003	4.0	2.0	2.0	.0	.0	.0	.6	8.1	2.0	.0	4.0	.0	4.6	.0		81.2
06009	3.3	1.7	2.4	.0	.0	.0	.2	7.3	1.1	2.6	4.4	.0	3.5	.2		81.3
12015	5.1	4.1	1.5	.0	.0	.0	.0	10.7	2.3	6.9	2.8	.0	1.8	.0		77.3
18021	4.2	4.2	1.2	.0	.0	.0	.2	9.7	1.0	4.9	5.7	.0	3.0	.0		76.3
TOT PCT	4.1	3.0	1.8	.0	.0	.0	.2	8.9	1.5	3.7	4.4	.0	3.2	.1		79.0
TOT OBS:	1789															

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47	00	03					06	09	12	15	18	21	
N	1.2	6.4	7.6	1.9	.4	.0		17.4	13.1		25.2	15.1	12.6	16.8	16.1	22.7	20.7	14.3
NE	1.2	7.4	7.1	1.2	.1	.0		17.0	11.5		13.3	14.7	23.1	20.4	22.1	16.5	13.4	8.8
E	.7	4.6	2.0	.5	*	.0		7.8	9.6		7.6	7.2	12.0	10.3	6.8	5.8	6.2	4.8
SE	1.2	3.3	3.9	.6	.2	*		11.3	11.1		7.0	12.8	11.7	13.7	12.3	13.8	8.5	7.3
S	1.1	6.5	7.6	2.5	.7	.1		18.5	14.1		14.6	20.1	20.0	19.4	19.5	14.9	16.6	20.8
SW	.8	4.4	4.5	1.7	.4	*		11.9	14.1		13.0	12.6	8.5	8.6	11.6	10.9	15.6	14.1
W	1.0	2.5	2.4	1.1	.2	.0		7.2	13.2		7.2	7.3	4.4	4.7	5.5	8.7	8.0	12.5
NW	.7	2.7	2.8	.4	.1	.0		6.7	11.6		9.2	7.1	4.9	4.2	4.5	5.5	9.0	10.5
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.3							2.3	.0		.8	3.1	.8	1.8	1.6	1.3	2.0	6.7
TOT OBS	249	966	922	239	53	3	2432		12.2		128	390	362	362	191	312	398	269
TOT PCT	10.2	39.7	37.9	9.8	2.2	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	3.7	8.4	4.5	.9	*		17.4	13.1	17.6	14.8	20.2	18.1	
NE	4.5	8.8	3.4	.4	*		17.0	11.5	14.3	22.7	18.6	11.5	
E	2.7	4.2	.7	.1	.0		7.8	9.6	7.3	11.2	6.2	5.7	
SE	3.0	6.1	1.7	.4	.1		11.3	11.1	11.4	12.7	13.2	8.1	
S	4.3	7.5	5.1	1.3	.3		18.5	14.1	18.8	19.7	16.7	18.3	
SW	2.4	5.2	3.4	.7	.2		11.9	14.1	13.2	8.5	11.2	15.0	
W	1.9	2.9	1.8	.5	.1		7.2	13.2	7.3	4.5	7.5	9.8	
NW	1.8	3.4	1.2	.3	.0		6.7	11.6	7.6	4.5	5.1	9.6	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.3						2.3	.0	2.5	1.3	1.4	3.9	
TOT OBS	645	1132	527	111	17	2432		12.2	518	744	503	667	
TOT PCT	26.5	46.5	21.7	4.6	.7		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.5	9.7	38.8	35.9	9.5	3.5	.2	12.4	100.0	518
06009	1.3	6.5	40.5	40.9	9.3	1.6	.0	12.3	100.0	744
12015	1.4	5.8	41.7	39.0	10.1	1.8	.2	12.6	100.0	502
18021	3.9	9.9	38.1	35.4	10.5	2.1	.1	11.8	100.0	667
TOT	56	193	966	922	239	53	3	12.2		2432
PCT	2.3	7.9	39.7	37.9	9.8	2.2	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.7	3.2	4.7	4.7		4.3
NE	7.1	2.8	4.9	3.5		4.1
E	2.8	1.4	3.3	.7		4.1
SE	2.3	1.6	2.1	2.5		4.8
S	3.6	3.9	7.6	4.2		5.0
SW	3.3	2.2	4.9	2.1		4.6
W	3.9	.9	1.5	.5		2.9
NW	3.1	.9	.8	1.4		3.5
VAR	.0	.0	.0	.0		.0
CALM	.9	.2	.0	.0		1.0
TOT OBS	179	91	158	104	532	4.3
TOT PCT	33.6	17.1	29.7	19.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT; NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.6	2.0	1.0	.8	.5	.1	.0	13.3	
NE	.0	.0	.0	.8	2.2	1.1	.8	.4	.0	.0	12.7	
E	.1	.0	.0	.4	1.2	.5	.2	.0	.0	.0	5.6	
SE	.0	.0	.4	.8	1.6	.9	.0	.0	.0	.0	4.8	
S	.0	.0	.1	3.1	3.5	1.7	.5	.0	.0	.0	10.1	
SW	.2	.0	.2	1.3	2.3	.9	.5	.0	.0	.0	7.0	
W	.0	.0	.0	.7	.2	.1	.0	.0	.0	.0	5.7	
NW	.0	.0	.0	.6	.4	.0	.0	.0	.0	.0	5.2	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	
TOT OBS	2	0	4	49	71	34	14	5	1	4	348	532
TOT PCT	.4	.0	.8	9.2	13.3	6.4	2.6	.9	.2	.8	65.4	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.6	.9	.9	.9	.9	.9	.9	.9
>5000	1.1	2.0	2.0	2.0	2.0	2.0	2.0	2.0
>3500	3.5	4.6	4.6	4.6	4.6	4.6	4.6	4.6
>2000	9.0	11.1	11.1	11.1	11.1	11.1	11.1	11.1
>1000	19.4	23.8	23.8	24.0	24.0	24.0	24.0	24.0
>600	24.5	32.1	32.8	33.0	33.2	33.2	33.2	33.2
>300	24.7	32.7	33.4	33.8	33.9	33.9	33.9	33.9
>150	24.7	32.7	33.4	33.8	33.9	33.9	33.9	33.9
>0	25.1	33.2	33.9	34.3	34.5	34.5	34.5	34.5
TOTAL	136	180	184	186	187	187	187	187

TOTAL NUMBER OF OBS: 542

PCT FREQ NH <5/8: 65.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
12.6	16.8	12.9	13.1	9.7	6.7	6.4	8.0	13.5	659

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	NO PCP	.4	.3	*	.2	.3	.1	.1	.2	.0	.0	.0	1.6
	TOT %	.4	.3	*	.2	.4	.1	.1	.2	.0	.0	.1	1.7
1<2	PCP	.1	.1	*	.1	.3	.0	.0	.0	.0	.0	.5	.5
	NO PCP	.7	.3	.1	.1	.1	.1	.2	.3	.0	.0	.0	1.9
	TOT %	.8	.4	.1	.2	.3	.1	.2	.3	.0	.0	.5	2.4
2<5	PCP	*	*	.1	.2	.2	.1	*	*	.0	.0	.9	.9
	NO PCP	.2	.4	.3	.1	1.1	*	.0	.1	.0	.2	2.5	2.5
	TOT %	.2	.4	.5	.3	1.3	.2	.1	.1	.0	.2	3.4	3.4
5<10	PCP	.8	.6	.3	1.0	1.4	.5	.3	.2	.0	.0	5.0	5.0
	NO PCP	6.1	5.5	2.5	4.3	6.3	4.0	3.0	2.3	.0	.3	34.4	34.4
	TOT %	6.9	6.1	2.8	5.3	7.7	4.5	3.3	2.5	.0	.3	39.4	39.4
10+	PCP	.2	.5	.1	.1	.5	.3	.1	.1	.0	.1	2.1	2.1
	NO PCP	9.0	8.7	4.6	4.9	9.7	6.1	3.6	3.2	.0	1.3	51.0	51.0
	TOT %	9.2	9.2	4.7	5.0	10.2	6.4	3.7	3.3	.0	1.4	53.2	53.2
TOT OBS													
TOT PCT													
		17.4	16.4	8.2	11.0	20.0	11.2	7.3	6.5	.0	2.0	100.0	1727

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.2	.1	*	*	*	.1	.1	.2	.0	.0	.6	.6
	11-21	.1	.1	.0	.1	.2	.0	.0	*	.0	.0	.6	.6
	22+	.0	.1	.0	*	.1	.0	.0	.0	.0	.0	.2	.2
	TOT %	.4	.3	*	.2	.4	.1	.1	.2	.0	.0	1.5	1.5
1<2	0-3	.1	.0	.0	.0	.0	.0	.1	*	.0	.0	.2	.2
	4-10	*	.1	.1	.1	.2	*	.1	.0	.0	.0	.6	.6
	11-21	.3	.1	.0	.1	.2	*	*	.1	.0	.0	.8	.8
	22+	.3	.1	*	.1	.1	.0	.0	.2	.0	.0	.8	.8
	TOT %	.7	.3	.1	.3	.4	.1	.2	.3	.0	.0	2.3	2.3
2<5	0-3	.1	.1	.2	.1	.2	.0	.0	.1	.0	.2	.8	.8
	4-10	.2	.3	.2	.2	.6	.1	.0	.0	.0	.0	1.6	1.6
	11-21	.2	.2	.0	.1	.4	.1	.0	.1	.0	.0	1.1	1.1
	22+	.1	.1	*	*	.2	*	.1	.0	.0	.0	.5	.5
	TOT %	.4	.7	.5	.4	1.4	.2	.1	.2	.0	.2	3.9	3.9
5<10	0-3	.2	.3	.2	.4	.3	.4	.5	.3	.0	.4	3.0	3.0
	4-10	1.9	2.0	1.4	1.8	1.9	1.1	.9	1.0	.0	.0	12.1	12.1
	11-21	3.2	3.1	1.0	2.4	3.2	1.7	1.1	.9	.0	.0	16.7	16.7
	22+	1.0	.4	*	.2	1.7	1.0	.5	.1	.0	.0	5.0	5.0
	TOT %	6.4	5.8	2.7	4.8	7.1	4.2	3.1	2.3	.0	.4	36.7	36.7
10+	0-3	.8	.9	.4	.7	.8	.5	.5	.4	.0	1.6	6.6	6.6
	4-10	3.5	4.5	3.0	2.8	4.0	2.9	1.5	1.2	.0	.0	23.3	23.3
	11-21	4.3	3.9	1.3	1.5	4.1	2.8	1.6	1.6	.0	.0	21.1	21.1
	22+	.8	.5	.2	.3	1.0	.7	.8	.2	.0	.0	4.5	4.5
	TOT %	9.4	9.8	4.9	5.3	9.9	6.9	4.3	3.4	.0	1.6	55.5	55.5
TOT OBS													
TOT PCT													
		17.3	16.8	8.2	10.9	19.1	11.4	7.7	6.4	.0	2.2	100.0	1925

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY MGT	TOTAL OBS
00003	.0	.0	.0	10.0	11.6	5.0	2.9	.7	.0	.0	32.1	67.1	140
06009	.0	.0	.7	8.6	9.9	4.0	4.6	.7	.7	.7	29.8	70.2	151
12015	1.1	.0	.6	8.0	12.5	6.8	.6	1.7	.0	1.1	32.4	67.6	176
18021	.7	.0	1.3	6.0	10.6	6.6	1.3	.7	.0	.7	27.8	72.2	151
TOT	3	0	4	50	72	35	14	6	1	4	189	429	618
PCT	.5	.0	.6	8.1	11.7	5.7	2.3	1.0	.2	.6	30.6	69.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	2.4	2.2	2.4	30.1	62.9	969
06009	.0	1.4	2.9	6.6	42.2	46.9	625
12015	.0	.2	1.2	1.6	33.6	63.4	432
18021	.0	2.0	2.3	3.4	38.2	54.1	555
TOT	0	30	44	76	732	1099	1981
PCT	.0	1.5	2.2	3.8	37.0	55.5	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	.0	11.7	25.8	62.5	120
06009	.0	2.3	12.4	23.3	64.3	129
12015	1.2	1.8	10.2	23.5	66.3	166
18021	.8	2.4	9.4	22.8	67.7	127
TOT	3	9	59	129	354	542
PCT	.6	1.7	10.9	23.8	65.3	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.1	.0	.0	.0	.0	.0	.0	.0	1	.1
75/79	.0	.1	.0	.5	.5	.6	.2	.0	22	1.7
70/74	.0	.1	.3	.5	1.6	3.4	3.2	1.9	138	10.9
65/69	.0	.3	.8	1.8	4.3	8.8	11.7	11.0	490	38.6
60/64	.0	.1	.7	2.9	9.0	11.2	9.6	4.8	486	38.3
55/59	.0	.0	.2	.9	1.7	3.2	2.7	.9	120	9.5
50/54	.0	.0	.0	.2	.1	.2	.4	.0	11	.9
TOTAL	1	7	25	85	216	347	351	236	1268	100.0
PCT	.1	.6	2.0	6.7	17.0	27.4	27.7	18.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0
75/79	.2	.4	.2	.1	.2	.2	.0	.2	.0	.2
70/74	3.6	2.3	.9	.4	.8	.9	.5	1.1	.0	.5
65/69	11.0	8.7	3.3	3.2	3.9	2.5	2.2	3.1	.0	.8
60/64	2.6	5.3	3.6	6.0	10.5	7.0	2.6	1.7	.0	.9
55/59	.1	.0	.2	1.1	3.6	2.2	1.7	.4	.0	.2
50/54	.0	.0	.1	.0	.2	.2	.3	.1	.0	.0
TOTAL	17.5	16.7	8.2	10.8	19.2	11.0	7.2	6.7	.0	2.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	80	77	74	66	59	55	52	66.2	514
06009	78	76	72	65	59	55	52	65.3	743
12015	73	72	70	64	58	55	50	63.9	513
18021	73	72	69	63	56	53	52	63.1	676
TOT	80	75	72	64	58	54	50	64.6	2446

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.4	14.6	18.3	28.4	25.4	13.1	74	268
06009	.0	8.6	19.0	28.4	25.9	18.0	77	394
12015	.0	7.7	17.8	26.6	25.2	22.7	78	286
18021	.0	6.9	13.5	26.0	32.6	21.0	79	362
TOT	1	120	224	358	360	247	77	1310

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.1	.1	.0	.1	3	.0	.2
11/13	.0	.0	.0	.0	.2	.1	.2	.0	5	.0	.4
9/10	.0	.0	.0	.0	.2	.2	.3	.1	9	.1	.6
7/8	.0	.0	.0	.2	.1	.5	.2	.0	13	.0	1.0
6	.0	.0	.0	.1	.2	.8	.2	.0	17	.2	1.1
5	.0	.0	.0	.1	.8	.9	.0	.0	23	.3	1.4
4	.0	.0	.1	.2	1.6	1.8	.4	.0	34	.2	3.9
3	.0	.0	.1	1.1	1.7	1.3	.2	.0	38	.2	4.2
2	.0	.0	.2	1.1	3.9	2.3	.1	.0	99	.6	6.9
1	.0	.0	.3	1.4	5.6	1.4	.1	.0	115	.7	8.0
0	.0	.0	.9	5.7	7.6	1.6	.1	.0	210	.7	15.2
-1	.0	.0	.7	5.1	4.2	1.1	.1	.0	146	.5	10.5
-2	.0	.1	1.9	6.4	3.3	.5	.0	.0	161	.8	11.3
-3	.0	.2	1.2	3.5	2.3	.5	.0	.0	102	.5	7.3
-4	.0	.2	1.8	3.6	1.8	.0	.0	.0	97	.3	7.0
-5	.0	.4	2.3	2.7	1.0	.1	.0	.0	85	.2	6.2
-6	.0	.3	1.4	1.5	.3	.0	.0	.0	46	.3	3.2
-7/-8	.1	.3	1.4	1.1	.5	.1	.0	.0	46	.1	3.4
-9/-10	.2	.2	.8	.3	.1	.0	.0	.0	21	.0	1.6
-11/-13	.0	.2	.6	.1	.0	.0	.0	.0	11	.0	.8
-14/-16	.0	.1	.0	.0	.1	.0	.0	.0	2	.0	.2
TOTAL	3	25	181	451	465	173	23	2	1323	5.6	94.4
PCT	.2	1.9	13.7	34.1	35.1	13.1	1.7	.2	100.0	5.6	94.4

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.9	.0	.0	.0	.0	1.2	.0	1.7	.0	.0	.0	.0	1.7
1-2	.0	3.5	.9	.0	.0	.0	4.4	.0	3.9	1.9	.0	.0	.0	5.7
3-4	.0	1.7	4.9	.0	.0	.0	6.6	.0	1.9	3.0	.0	.0	.0	4.9
5-6	.0	.5	2.4	.7	.0	.0	3.6	.0	.3	2.1	.0	.0	.0	2.4
7	.0	.2	1.7	.7	.0	.0	2.5	.0	.0	.4	.6	.0	.0	.9
8-9	.0	.0	.0	.7	.0	.0	.7	.0	.0	.2	.5	.2	.0	.5
10-11	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.2	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	7.0	10.1	2.5	.5	.0	20.3	.0	7.7	7.6	1.5	.2	.0	17.1

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.4	.9	.2	.0	.0	.0	1.5	.1	.4	.0	.0	.0	.0	.4
1-2	.0	2.9	.0	.0	.0	.0	2.9	.0	3.1	.7	.0	.0	.0	3.8
3-4	.0	.9	1.5	.0	.0	.0	2.4	.0	.5	1.5	.0	.0	.0	2.1
5-6	.0	.4	.4	.0	.0	.0	.8	.0	.3	1.8	.0	.0	.0	2.1
7	.0	.0	.0	.2	.0	.0	.2	.0	.0	.9	.4	.0	.0	1.3
8-9	.0	.0	.0	.2	.0	.0	.2	.0	.0	.2	.1	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.5	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.1	4.3	5.2	1.0	.0	.0	10.6
TOT PCT	.4	5.1	2.1	.4	.0	.0	8.0	.1	4.3	5.2	1.0	.0	.0	10.6

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.8	.0	.0	.0	.0		.8	.2	.3	.0	.0	.0	.0		.5
1-2	.5	2.4	1.5	.0	.0	.0		4.4	.0	1.3	.7	.0	.0	.0		2.0
3-4	.0	1.5	2.4	.2	.0	.0		4.1	.0	.0	1.7	.2	.0	.0		3.2
5-6	.0	.7	4.7	1.1	.0	.0		6.5	.0	.0	1.7	.8	.0	.0		2.5
7	.0	.0	.4	1.2	.0	.0		1.7	.0	.0	1.0	.6	.0	.0		1.6
8-9	.0	.0	.7	.2	.0	.0		.9	.0	.0	.1	.0	.0	.0		.1
10-11	.0	.0	.6	.2	.0	.0		.8	.0	.0	.1	.2	.0	.0		.5
12	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.0	.0	.0		.3
13-16	.0	.0	.0	.6	.0	.0		.6	.0	.0	.0	.1	.2	.0		.0
17-19	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.2	.0	.0		.2
23-25	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	2.9	5.2	2.2	.5	.0		11.0
TOT PCT	.5	5.3	10.2	4.1	.5	.0		20.6	.2	2.9	5.2	2.2	.5	.0		

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.2	.0	.0	.0	.0	.0		.2	.2	.3	.0	.0	.0	.0		.5	
1-2	.2	.9	.0	.0	.0	.0		1.1	.0	.5	.2	.0	.0	.0		.7	
3-4	.0	1.1	1.2	.0	.0	.0		2.4	.0	.3	.8	.0	.0	.0		1.1	
5-6	.0	.0	.2	.2	.0	.0		.4	.0	.0	1.0	.0	.0	.0		1.0	
7	.0	.0	.2	.2	.0	.0		.4	.0	.1	.2	.0	.0	.0		.3	
8-9	.0	.0	.4	.2	.2	.0		.9	.0	.0	.2	.1	.0	.0		.0	
10-11	.0	.0	.0	.5	.0	.0		.5	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.5	.0	.0		.5	.0	.0	.0	.0	.0	.0		.2	
13-16	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.0	.2	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	1.1	2.5	.1	.2	.0		4.1	98.6
TOT PCT	.5	2.0	2.1	1.5	.7	.0		6.8	.2	1.1	2.5	.1	.2	.0			

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.5	5.3	.2	.0	.0	.0	9.1	
1-2	1.2	18.4	5.8	.0	.0	.0	25.3	
3-4	.0	9.1	18.7	.5	.0	.0	26.3	
5-6	.2	2.1	14.0	2.8	.0	.0	19.1	
7	.0	.2	4.7	3.7	.0	.0	8.6	
8-9	.0	.0	1.9	1.9	.5	.0	4.2	
10-11	.0	.0	.9	1.9	.2	.0	3.0	
12	.0	.0	.0	.9	.0	.0	.9	
13-16	.0	.2	.0	.9	.5	.0	1.6	
17-19	.0	.0	.0	.2	.5	.0	.7	
20-22	.0	.0	.0	.0	.7	.0	.7	
23-25	.0	.0	.0	.2	.2	.0	.5	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	430
TOT PCT	4.9	35.3	44.2	13.0	2.6	.0	100.0	

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	6.5	10.9	6.5	4.2	1.3	.2	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	166
6-7	.0	.2	6.7	7.9	7.1	4.6	2.1	.8	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	198
8-9	.0	.2	2.7	4.4	4.6	2.9	2.3	.6	1.7	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	104
10-11	.0	.2	1.1	.8	1.3	1.5	.4	.2	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	34
12-13	.0	.0	.4	.4	.8	.0	.4	.6	.0	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	16
>13	.0	.0	.0	.2	.2	.2	.8	.4	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	11
INDET	.4	.8	1.1	1.0	1.0	.6	.4	.4	.4	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	33
TOTAL	10	41	120	110	100	58	34	15	20	6	1	1	1	1	0	0	0	0	0	0	522
PCT	1.9	7.9	23.0	21.1	19.2	11.1	6.5	2.9	3.8	1.1	1.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	100.0

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1857-1972

NOVEMBER

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33.35 152.2E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG WEA
N	3.2	3.3	.7	.0	.0	.0	.0	7.2	.9	4.7	7.7	.0	6.3	.3	73.9
NE	4.1	.2	1.5	.0	.0	.0	.3	5.8	.1	2.2	7.3	.0	8.4	.0	76.3
E	6.0	3.9	3.0	.0	.0	.0	.0	12.9	3.4	2.4	1.9	.0	2.5	.0	78.2
SE	4.9	5.4	1.6	.0	.0	.0	.0	11.4	.6	2.5	1.5	.0	3.2	.0	81.1
S	3.7	5.5	2.1	.0	.0	.0	.0	11.3	2.7	2.0	3.0	.0	1.4	.0	80.4
SW	8.9	2.9	.9	.0	.0	.0	.0	12.7	3.2	2.6	2.9	.0	1.9	.0	77.9
W	2.9	.0	.0	.0	.0	.0	.0	2.9	.7	2.9	5.3	.0	7.2	.0	81.0
NW	3.7	1.4	2.5	.0	.0	.0	.0	7.6	1.1	8.7	11.0	.0	5.9	.0	67.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	11.3	1.6	3.2	.0	.0	.0	.0	16.1	.0	.0	3.2	.0	4.8	.0	75.8
TOT PCT	4.9	3.0	1.6	.0	.0	.0	.1	9.4	1.3	3.0	4.9	.0	4.5	.1	77.3
TOT OBS:	1826														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	BLWG DUST	NO SIG WEA
00003	3.8	1.9	2.2	.0	.0	.0	.0	7.8	1.3	.5	3.2	.0	5.4	.0	81.9
06009	4.9	2.5	1.4	.0	.0	.0	.2	8.9	.7	2.0	6.0	.0	7.4	.2	75.7
12015	4.5	2.3	2.3	.0	.0	.0	.0	8.8	2.0	6.5	3.5	.0	2.5	.0	77.6
18021	5.5	4.6	.9	.0	.0	.0	.0	10.9	2.0	3.1	5.8	.0	3.3	.0	75.4
TOT PCT	4.8	2.9	1.6	.0	.0	.0	.1	9.3	1.3	3.0	4.9	.0	4.8	.1	77.2
TOT OBS:	1868														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

PERCENTAGE FREQUENCY DISTRIBUTION													HOUR (GMT)						
WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	00	03	06	09	12	15	18	21
	0-3	4-10	11-21	22-33	34-47														
N	1.0	5.6	7.3	1.9	.3	.0	16.1	13.5	19.5	15.2	13.5	13.0	18.6	17.1	18.2	17.0			
NE	1.5	7.6	8.2	1.2	*	.0	18.6	11.6	11.9	17.0	27.9	26.0	18.2	19.2	12.7	10.7			
E	1.2	5.0	2.5	.4	.1	.0	9.2	9.6	8.6	9.7	12.0	10.2	9.1	10.0	7.6	5.4			
SE	1.0	6.5	4.2	.5	.1	.0	12.2	10.4	11.4	11.4	12.6	15.2	8.5	12.3	13.3	9.8			
S	1.0	6.0	6.8	2.8	.5	.1	17.3	14.2	18.8	16.9	17.4	15.0	19.2	17.1	18.8	16.9			
SW	1.1	4.2	3.9	1.8	.5	*	11.6	13.9	15.3	12.7	7.3	8.4	13.6	10.8	12.2	16.2			
W	.9	2.3	1.8	.7	.2	.0	5.8	11.9	6.1	6.9	4.4	4.5	5.6	5.7	4.8	9.5			
NW	.7	2.9	1.9	.4	.1	.0	6.0	10.4	7.7	5.5	3.5	3.6	5.8	5.8	9.1	7.6			
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
CALM	3.3						3.3	.0	.0	4.7	1.5	4.1	1.5	1.9	3.2	6.9			
TOT OBS	301	1021	930	249	43	3	2547		136	405	340	418	206	321	431	290			
TOT PCT	11.8	40.1	36.5	9.8	1.7	.1	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0			

TABLE 3A

WIND SPEED (KNOTS)										HOUR (GMT)			
WIND DIR	0-6	7-16	17-27	28-40	41+	TOTAL OBS	PCT FREQ	MEAN SPD	00 03	06 09	12 15	18 21	
N	3.0	7.6	4.6	.8	.0		16.1	13.5	16.3	13.2	17.6	17.7	
NE	4.4	9.7	4.3	.2	.0		18.6	11.6	15.8	26.8	18.8	11.9	
E	3.4	4.6	.9	.3	.0		9.2	9.6	9.4	11.0	9.7	6.7	
SE	3.5	6.8	1.7	.2	*		12.2	10.4	11.4	14.0	10.8	11.9	
S	3.6	7.6	4.3	1.6	.2		17.3	14.2	17.3	16.1	17.9	18.0	
SW	3.3	4.3	2.8	1.1	.2		11.6	13.9	13.4	7.9	11.9	13.8	
W	1.8	2.3	1.4	.2	.0		5.8	11.9	6.7	4.5	5.6	6.7	
NW	2.1	2.9	.7	.2	.0		6.0	10.4	6.1	3.6	5.8	8.5	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.3						3.3	.0	3.7	2.9	1.7	4.7	
TOT OBS	721	1169	530	116	11	2547		11.8	541	758	527	721	
TOT PCT	28.3	45.9	20.8	4.6	.4		100.0		100.0	100.0	100.0	100.0	

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 PERIOD: (PRIMARY) 1912-1972
 (OVER-ALL) 1857-1972

 AREA 0007 SYDNEY
 33.35 152.2E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

PERCENTAGE FREQUENCY											
HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS	
				11-21	22-33	34-47					
00003	3.7	11.6	39.2	36.6	6.5	2.4	.0	11.3	100.0	541	
06009	2.9	7.7	37.9	38.7	10.8	1.7	.4	12.5	100.0	758	
12015	1.7	3.2	39.7	40.8	13.1	1.5	.0	13.0	100.0	527	
18021	4.7	10.8	43.4	31.1	8.7	1.2	.0	10.7	100.0	721	
TOT	85	216	1021	930	249	43	3	11.8		2547	
PCT	3.3	8.5	40.1	36.5	9.8	1.7	.1		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	7.9	2.6	3.8	2.7		3.4
NE	6.6	1.1	4.0	4.1		4.2
E	2.4	1.8	2.2	3.3		4.8
SE	1.8	1.3	4.8	1.5		4.9
S	4.2	4.2	6.3	2.7		4.4
SW	4.7	3.1	4.8	1.2		4.3
W	3.7	1.4	1.0	1.2		3.2
NW	2.9	1.3	1.8	1.0		3.5
VAR	.0	.0	.0	.2		.0
CALM	1.0	.0	.0	.0		1.8
TOT OBS	206	99	167	110	582	4.1
TOT PCT	35.4	17.0	28.7	18.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

WIND DIR	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+ ANY HGT	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	1.1	1.2	.6	.5	.0	.1	.2	13.4	
NE	.2	.0	.3	1.6	1.7	1.1	.7	.5	.0	.2	9.5	
E	.3	.0	.3	1.2	1.4	.6	.2	.2	.0	.0	5.5	
SE	.2	.2	.1	1.0	2.3	.6	.2	.2	.0	.2	4.6	
S	.0	.0	.0	1.8	4.1	1.6	.1	.2	.0	.2	9.8	
SW	.0	.0	.5	1.0	2.6	.4	.3	.0	.0	.3	5.7	
W	.0	.0	.0	.5	.4	.3	.2	.0	.0	.6	4.8	
NW	.0	.0	.0	.3	.9	.5	.2	.0	.0	.0	.0	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	
CALM	.4	1	8	49	85	33	13	6	1	11	371	582
TOT OBS	4	1	8	49	85	33	13	6	1	11	371	582
TOT PCT	.7	.2	1.4	8.4	14.6	5.7	2.2	1.0	.2	1.9	63.7	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
OR >6500	1.9	2.0	2.0	2.0	2.0	2.0	2.0	2.0
OR >5000	2.9	3.0	3.0	3.0	3.0	3.0	3.0	3.0
OR >3500	4.9	5.2	5.2	5.2	5.2	5.2	5.2	5.2
OR >2000	9.3	10.8	11.1	11.1	11.1	11.1	11.1	11.1
OR >1000	21.0	24.9	25.6	25.8	25.8	25.8	25.8	25.8
OR >600	25.1	32.3	33.7	34.0	34.0	34.0	34.0	34.0
OR >300	25.3	32.8	34.8	35.2	35.2	35.4	35.4	35.4
OR >150	25.3	32.8	35.0	35.4	35.4	35.5	35.5	35.5
OR >0	25.8	33.5	35.7	36.0	36.0	36.2	36.2	36.2
TOTAL	153	199	212	214	214	215	215	215

TOTAL NUMBER OF OBS: 594

PCT FREQ NH <5/8: 63.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
18.4	17.8	11.2	10.3	6.3	7.0	8.9	6.6	13.0	.6	633

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1857-1972

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93.95 152.2F

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	NO PCP	.1	.1	.0	*	*	*	*	*	.0	.0	.3	
	TOT %	.1	.1	.0	*	*	.0	*	*	.0	.0	.3	
1/2<1	PCP	.2	.0	.0	*	.1	.1	.0	.1	.0	.0	.4	
	NO PCP	.5	.5	.1	.1	.4	.1	.2	.4	.0	.0	2.3	
	TOT %	.7	.5	.1	.1	.4	.1	.2	.4	.0	.0	2.7	
1<2	PCP	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.2	
	NO PCP	.5	1.1	.1	.3	.2	.2	.2	.4	.0	.1	3.1	
	TOT %	.5	1.2	.1	.3	.2	.4	.2	.4	.0	.1	3.3	
2<5	PCP	.1	.2	.2	.1	.4	.3	.0	.1	.0	.1	1.5	
	NO PCP	.3	.5	.1	.1	.4	.3	.2	.1	.0	.1	2.0	
	TOT %	.4	.7	.3	.2	.8	.6	.2	.1	.0	.1	3.5	
5<10	PCP	.7	.6	.8	.9	1.5	.7	.1	.2	.0	.1	5.3	
	NO PCP	6.6	6.9	3.0	4.1	7.6	4.1	1.8	2.0	.0	.3	36.4	
	TOT %	7.3	7.2	3.8	5.0	9.0	4.9	1.8	2.2	.0	.4	41.7	
10+	PCP	.2	.3	.1	.2	.1	.3	.1	.2	.0	.4	2.0	
	NO PCP	7.5	7.6	4.3	5.2	7.6	6.0	3.1	2.6	.0	2.4	46.5	
	TOT %	7.7	7.9	4.4	5.3	7.7	6.3	3.2	2.8	.0	2.8	48.5	
TOT OBS													1824
TOT PCT		16.7	17.7	8.7	11.2	18.2	12.3	5.6	6.0	.0	3.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.0	.0	.0	*	*	*	.0	.0	.2	
	11-21	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	
	TOT %	.1	.1	.0	*	*	.0	*	*	.0	.0	.3	
1/2<1	0-3	*	.0	.0	.0	.0	*	.0	.0	.0	.0	.1	
	4-10	.1	.1	.1	.1	.1	*	.1	.1	.0	.0	.7	
	11-21	.4	.3	.1	*	*	.0	.1	.2	.0	.0	1.2	
	22+	*	.1	.0	*	.3	*	.0	.1	.0	.0	.5	
	TOT %	.6	.5	.1	.1	.4	.1	.2	.4	.0	.0	2.5	
1<2	0-3	*	.0	*	.1	*	.1	*	*	.0	*	.5	
	4-10	.1	.4	*	.2	.2	.1	.1	.1	.0	.0	1.2	
	11-21	.2	.5	.0	.1	*	*	.0	.2	.0	.0	1.1	
	22+	.1	.2	.0	.0	.0	*	.0	.0	.0	.0	.3	
	TOT %	.5	1.1	.1	.4	.2	.3	.1	.4	.0	*	3.2	
2<5	0-3	*	.2	.1	.1	.1	*	.1	*	.0	.1	.9	
	4-10	.1	.3	.1	.1	.4	.2	.1	*	.0	.0	1.3	
	11-21	.3	.2	.1	*	.1	.1	.0	*	.0	.0	1.0	
	22+	.1	.1	.1	*	.1	.2	.0	.0	.0	.0	.6	
	TOT %	.6	.8	.4	.3	.7	.6	.2	.1	.0	.1	3.8	
5<10	0-3	.5	.4	.7	.4	.6	.3	.4	.4	.0	.5	4.3	
	4-10	1.9	2.9	1.6	2.8	2.5	2.0	.7	.7	.0	.0	15.0	
	11-21	2.9	3.1	.9	1.2	3.1	1.5	.5	.8	.0	.0	14.0	
	22+	1.3	.6	.3	.3	2.1	.8	.2	.2	.0	.0	6.0	
	TOT %	6.5	7.1	3.6	4.6	8.3	4.6	1.9	2.1	.0	.5	39.3	
10+	0-3	.4	.8	.4	.4	.4	.7	.4	.2	.0	2.8	6.4	
	4-10	2.9	3.3	2.7	3.2	3.1	2.4	1.4	1.5	.0	.0	20.4	
	11-21	3.6	4.3	1.4	2.2	3.7	2.3	1.1	.8	.0	.0	19.5	
	22+	.8	.3	.2	.1	1.1	1.3	.5	.2	.0	.0	4.6	
	TOT %	7.6	8.8	4.8	5.9	8.3	6.7	3.4	2.7	.0	2.8	50.9	
TOT OBS													2035
TOT PCT		15.9	18.4	9.0	11.4	17.9	12.3	5.9	5.7	.0	3.4	100.0	

NOVEMBER

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1857-1972AREA 0007 SYDNEY
33.35 152.2E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.7	.7	9.5	14.2	7.4	1.4	.0	.0	3.4	37.2	62.8	148
06009	.8	.0	.8	8.5	12.4	7.0	3.9	1.6	.0	2.3	37.2	62.8	129
12015	.5	.0	2.1	6.7	12.3	4.1	2.1	1.0	.0	.5	29.2	70.8	195
18021	1.3	.0	1.3	6.9	16.3	4.4	1.3	1.3	.6	1.3	34.4	65.6	160
TOT	4	1	8	49	87	35	13	6	1	11	215	417	632
PCT	.6	.2	1.3	7.8	13.8	5.5	2.1	.9	.2	1.7	34.0	66.0	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.5	3.1	1.5	5.4	39.7	49.7	390
06009	.2	2.9	6.5	4.1	44.0	42.4	630
12015	.2	1.1	1.8	1.8	33.6	61.5	447
18021	.3	2.9	2.3	3.6	39.9	51.0	612
TOT	6	53	69	77	826	1048	2079
PCT	.3	2.5	3.3	3.7	39.7	50.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <5000	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	1.4	14.8	24.6	60.6	142
06009	.8	1.7	11.8	29.4	58.8	119
12015	.5	2.7	9.7	21.0	69.4	186
18021	1.4	2.7	10.9	26.5	62.6	147
TOT	4	13	69	148	377	594
PCT	.7	2.2	11.6	24.9	63.5	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.1	.0	.0	.0	.0	.1	2	.2
80/84	.0	.3	.2	.0	.4	.0	.0	.1	13	1.0
75/79	.0	.1	.3	1.0	.9	1.7	.6	.2	60	4.7
70/74	.0	.2	.7	1.4	3.6	4.7	8.5	4.7	303	23.9
65/69	.0	.4	.6	3.4	6.1	11.0	14.4	9.7	578	45.6
60/64	.0	.0	.8	1.5	5.7	6.5	4.7	2.7	277	21.9
55/59	.0	.0	.0	.2	.5	.9	.6	.6	34	2.7
TOTAL	0	12	36	95	217	314	367	228	1267	100.0
PCT	.0	.9	2.7	7.5	17.1	24.8	29.0	18.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
.1	.1	.0	.1	.0	.2	.4	.1	.0	.2
.9	1.2	.5	.3	.2	.4	.3	.2	.0	.7
7.4	5.5	1.7	1.2	1.7	1.8	1.4	2.0	.0	1.3
6.3	8.7	4.4	5.0	8.0	5.6	2.9	3.5	.0	1.2
.7	1.9	2.2	3.4	6.8	3.8	1.3	.4	.0	1.3
.0	.0	.1	.1	.8	1.2	.3	.1	.0	.0
15.4	17.5	9.0	10.0	17.5	13.0	6.8	6.2	.0	4.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	85	79	77	69	61	58	55	69.0	525
06009	85	80	75	68	62	59	55	67.8	751
12015	79	74	72	66	60	57	56	66.3	528
18021	81	74	72	66	60	57	55	65.8	716
TOT	85	78	74	67	60	57	55	67.2	2520

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	18.7	25.0	22.0	22.4	11.9	72	268
06009	.0	10.4	17.9	24.3	29.3	18.1	76	375
12015	.0	8.2	13.6	25.8	30.8	21.5	78	279
18021	.0	8.3	13.1	25.3	32.8	20.5	78	375
TOT	0	143	221	317	379	237	76	1297

NOVEMBER

PERIOD: (PRIMARY) 1912-1972
(OVER-ALL) 1857-1972AREA 0007 SYDNEY
33.35 152.2E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.1	.1	1	.0	.1
14/16	.0	.0	.0	.0	.1	.2	.1	5	.0	.4
11/13	.0	.0	.0	.0	.1	.1	.1	4	.0	.3
9/10	.0	.0	.1	.1	.3	.4	.1	13	.0	1.0
7/8	.0	.0	.1	.3	.7	1.0	.4	33	.1	2.4
6	.0	.0	.0	.1	.9	.7	.2	26	.1	1.9
5	.0	.0	.2	.7	1.2	.5	.0	25	.1	2.5
4	.0	.0	.1	.9	2.2	1.0	.1	58	.7	3.7
3	.0	.0	.4	1.7	3.1	.7	.0	79	.4	5.5
2	.0	.1	.6	3.5	3.4	.7	.1	112	1.3	7.1
1	.0	.1	.4	4.0	3.6	.1	.0	109	.7	7.4
0	.0	.3	1.6	7.2	4.8	.4	.0	191	.9	13.4
-1	.0	.2	2.0	5.6	2.8	.1	.0	144	.4	10.4
-2	.0	.3	3.4	4.7	1.7	.2	.0	139	.4	10.0
-3	.1	.2	1.9	3.3	1.0	.0	.0	87	.4	6.1
-4	.0	.7	3.7	2.7	1.0	.1	.0	110	.2	8.0
-5	.0	.4	2.2	2.2	.3	.1	.0	89	.2	4.9
-6	.0	.5	1.8	1.2	.2	.0	.0	50	.0	3.7
-7/-8	.0	.6	1.6	.7	.0	.0	.0	40	.1	2.8
-9/-10	.1	.9	.4	.4	.0	.0	.0	23	.0	1.7
-11/-13	.1	.2	.1	.1	.0	.0	.0	6	.0	.4
TOTAL	3	67	276	526	366	85	16	1334	8.0	125.4
PCT	.2	4.6	20.7	39.4	27.4	6.4	1.2	100.0	6.0	94.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.8	.0	.0	.0	.0	1.0	.0	.5	.0	.0	.0	.0	.5
1-2	.2	2.2	2.3	.0	.0	.0	4.7	.0	2.0	1.4	.0	.0	.0	3.4
3-4	.0	2.0	3.8	.2	.0	.0	6.0	.0	1.8	3.4	.0	.0	.0	5.2
5-6	.0	.0	1.9	.4	.0	.0	2.2	.0	.1	2.4	.5	.1	.0	3.0
7	.0	.0	1.1	.2	.2	.0	1.6	.0	.0	1.4	.2	.0	.0	1.6
8-9	.0	.0	.5	.2	.2	.0	.9	.0	.0	.3	.1	.0	.0	.4
10-11	.0	.0	.0	.4	.2	.0	.5	.0	.0	.0	.5	.1	.0	.5
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.0	9.6	1.6	.6	.0	17.2	.0	4.4	8.9	1.5	.1	.0	14.9

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.2	.0	.0	.0	.0	.4	.2	.7	.0	.0	.0	.0	.9
1-2	.0	2.1	.2	.0	.0	.0	2.4	.0	2.2	.7	.0	.0	.0	2.8
3-4	.0	1.2	2.5	.2	.0	.0	3.9	.0	1.1	2.7	.1	.0	.0	3.9
5-6	.0	.6	1.1	.2	.2	.0	2.1	.0	.7	1.1	.0	.0	.0	1.8
7	.0	.0	.4	.4	.2	.0	1.0	.0	.0	.3	.1	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.2	4.3	.9	.4	.0	10.0	.2	4.6	4.8	.4	.0	.0	10.0

PERIOD: (OVER-ALL) 1963-1977

NOVEMBER
TABLE 18 (CONT)AREA 0007 SYDNEY
33.35 152.2E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.9	.0	.0	.0	.0	.9	
1-2	.0	2.8	1.4	.0	.0	.0	4.3	.0	2.5	.8	.0	.0	.0	3.2	
3-4	.0	2.4	3.8	.3	.0	.0	6.6	.0	.9	2.8	.8	.0	.0	4.4	
5-6	.0	.3	1.8	.4	.0	.0	2.5	.0	.1	1.1	.5	.0	.0	1.8	
7	.0	.2	1.8	.2	.4	.0	2.5	.0	.1	.1	.5	.0	.0	1.6	
8-9	.0	.0	.4	.2	.0	.0	.7	.0	.0	.2	.4	.0	.0	.7	
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.9	.0	.0	.7	
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.2	.0	.0	.2	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.2	.0	.7	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	6.2	9.2	1.8	.4	.0	17.6	.0	4.4	5.0	4.0	1.4	.0	14.8	

HGT	1-3	4-10	11-21	27-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.4	.0	.0	.0	.0	.4	.2	.9	.0	.0	.0	.0	1.1	
1-2	.2	.9	.0	.0	.0	.0	1.1	.0	1.9	.3	.0	.0	.0	2.2	
3-4	.0	.4	1.3	.2	.0	.0	1.9	.0	1.1	2.2	.4	.0	.0	3.8	
5-6	.0	.0	.7	.2	.0	.0	.9	.0	.0	.2	.1	.0	.0	.2	
7	.0	.2	.4	.5	.0	.0	1.2	.0	.0	.3	.0	.0	.0	.3	
8-9	.0	.0	.2	.2	.2	.0	.6	.0	.0	.1	.3	.0	.0	.3	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.1	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.2	2.0	2.8	1.0	.2	.0	6.3	.2	3.9	3.1	.8	.0	.0	8.0	98.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	5.0	.0	.0	.0	.0	7.6	
1-2	.4	16.8	6.9	.0	.0	.0	24.2	
3-4	.2	10.8	22.2	2.2	.0	.0	35.4	
5-6	.0	4.7	10.2	2.2	.2	.0	14.3	
7	.0	.4	5.8	2.2	1.7	.0	10.2	
8-9	.0	.0	1.7	1.5	.4	.0	3.7	
10-11	.0	.0	.0	2.2	.2	.0	2.4	
12	.0	.0	.2	.6	.2	.0	1.1	
13-16	.0	.0	.0	.4	.0	.0	.4	
17-19	.0	.0	.0	.4	.2	.0	.6	
20-22	.0	.0	.0	.2	.0	.0	.2	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.2	34.8	47.1	11.9	3.0	.0	100.0	463

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	7.7	13.6	6.2	4.4	.7	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	189	4
6-7	.0	.4	4.0	11.0	8.3	5.0	2.2	.9	.4	.7	.4	.0	.0	.0	.0	.0	.0	.0	.0	181	7
8-9	.0	.0	1.1	6.1	5.7	2.4	1.8	1.7	1.3	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	111	8
10-11	.0	.2	.6	.2	.4	1.5	.4	.4	.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	25	9
12-13	.0	.0	.2	.2	.0	.2	.6	.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	10
>13	.0	.0	.0	.2	.2	.0	.4	.2	.0	.2	.0	.2	.2	.0	.0	.0	.0	.0	.0	8	14
INDET	1.3	.4	.6	.4	.2	.4	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	4
TOTAL	15	47	109	132	104	55	32	22	15	7	5	1	1	0	0	0	0	0	0	545	6
PCT	2.8	8.6	20.0	24.2	19.1	10.1	5.9	4.0	2.8	1.3	.9	.2	.2	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	4.1	.9	1.4	.0	.0	.0	.0	6.4	.9	6.0	7.7	.0	5.0	.0	75.1
NE	1.7	1.2	.8	.0	.0	.0	.0	3.7	.6	2.1	5.5	.0	5.2	.0	83.4
E	2.5	1.5	.9	.0	.0	.0	.0	4.9	1.1	2.3	4.8	.0	1.6	.0	85.4
SE	5.2	3.5	1.1	.0	.0	.0	.0	9.8	.8	.4	4.2	.0	2.8	.0	81.9
S	4.5	5.6	2.2	.0	.0	.0	.2	12.5	1.2	3.3	2.0	.0	2.4	.0	80.1
SW	7.4	6.0	1.2	.0	.0	.0	.0	14.6	2.8	4.3	5.4	.0	1.0	.0	74.4
W	6.8	7.7	.9	.0	.0	.0	1.7	17.0	5.1	6.4	2.6	.0	6.8	.0	63.0
NW	4.8	2.6	4.3	.0	.0	.0	.0	11.7	.0	3.0	5.2	.0	2.6	.0	77.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	4.7	.0	4.7	.0	.0	.0	.0	9.3	.0	2.3	2.3	.0	7.0	.0	79.1
TOT PCT	4.0	3.0	1.5	.0	.0	.0	.1	8.6	1.2	3.2	4.7	.0	3.5	.0	79.7
TOT OBS:	1982														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	3.9	1.6	2.1	.0	.0	.0	.0	7.5	1.8	.5	3.6	.0	5.7	.0	81.3
06009	4.6	1.9	.9	.0	.0	.0	.0	7.4	.1	1.6	5.0	.0	4.0	.0	82.4
12015	5.3	3.5	1.3	.0	.0	.0	.2	10.3	.9	7.7	4.4	.0	2.0	.0	77.2
18021	3.5	4.7	2.0	.0	.0	.0	.2	10.4	1.8	3.5	4.7	.0	2.5	.0	77.6
TOT PCT TOT OBS:	4.3 2115	3.0	1.5	.0	.0	.0	.1	8.9	1.1	3.3	4.5	.0	3.5	.0	79.8

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.2	6.1	6.9	2.0	.1	.0		16.4	12.8	24.6	14.5	14.4	14.8	11.1	18.8	18.3	18.8
NE	1.5	10.5	8.8	.9	.1	.0		21.8	11.0	13.4	19.0	23.8	28.8	28.8	24.1	16.4	11.7
E	1.1	6.9	3.0	.4	.0	.0		11.5	9.2	7.2	10.7	15.1	14.3	14.4	10.2	8.8	7.8
SE	1.5	7.1	3.9	.8	.1	.0		13.5	10.5	15.6	13.4	15.4	14.9	8.5	12.0	14.0	12.3
S	1.0	7.4	8.0	2.9	.4	.1		20.0	14.0	16.2	20.5	19.0	16.5	24.1	19.8	23.0	20.8
SW	.9	3.2	2.7	1.4	.3	.0		8.4	13.5	10.2	10.2	7.8	5.1	6.8	7.5	10.1	11.3
W	.6	1.4	.7	.3	.1	.0		3.1	10.1	1.6	5.2	1.4	1.9	3.1	2.6	3.0	5.7
NW	.5	1.3	1.0	.2	.0	.0		3.0	10.1	6.0	3.0	.3	1.5	2.8	3.9	4.1	5.2
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0	3.2	3.5	.7	2.2	.5	1.1	2.2	6.5
TOT OBS	291	1173	934	239	29	6	2672		11.5	125	430	416	453	200	349	404	293
TOT PCT	10.9	43.9	35.0	8.9	1.1	.2		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	3.4	7.9	4.4	.6	.0		16.4	12.8	16.8	14.6	16.0	18.5	
NE	5.4	12.2	3.9	.3	.0		21.8	11.0	18.2	27.4	25.8	14.4	
E	4.5	5.6	1.2	.1	.0		11.5	9.2	9.9	14.7	11.7	8.4	
SE	4.5	6.7	1.9	.4	.1		13.5	10.5	13.9	15.2	10.7	13.3	
S	4.0	9.0	5.6	1.0	.4		20.0	14.0	19.5	17.7	21.4	22.1	
SW	1.9	3.8	2.0	.5	.1		8.4	13.5	10.2	6.4	7.2	10.6	
W	1.4	1.2	.4	.2	.0		3.1	10.1	4.4	1.6	2.8	4.1	
NW	1.1	1.2	.5	.1	.0		3.0	10.1	3.6	.9	3.5	4.6	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.4						2.4	.0	3.4	1.5	.9	4.0	
TOT OBS	763	1274	531	85	17	2672		11.5	553	871	549	697	
TOT PCT	28.6	47.7	19.9	3.2	.6		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND 11-21	SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
					22-33	34-47					
00003	3.4	10.6	40.7	33.3	10.8	1.1	.0	11.4	100.0	555	
06009	1.5	7.8	45.0	35.9	8.5	.9	.3	11.6	100.0	871	
12015	.9	4.4	46.8	37.0	9.8	.9	.2	12.3	100.0	549	
18021	4.0	10.8	42.8	33.4	7.3	1.4	.3	10.9	100.0	697	
TOT	65	226	1173	934	239	29	6	11.5		2672	
PCT	2.4	8.5	43.9	35.0	8.9	1.1	.2		100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 10	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	6.1	3.8	4.2	2.9		4.0
NE	8.3	4.5	5.6	2.4		3.7
E	4.2	2.7	3.2	1.7		3.9
SE	2.6	3.0	3.1	2.9		4.7
S	5.7	3.1	8.0	7.0		5.2
SW	1.6	2.4	3.3	1.6		4.8
W	.0	.2	.7	.3		6.2
NW	.7	.1	1.4	.6		5.3
VAR	.0	.0	.0	.0		.0
CALM	.9	.4	.6	.0		3.2
TOT OBS	161	108	160	104	533	4.4
TOT PCT	30.2	20.3	30.0	19.5	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		OBS	
.0	.0	.3	.7	1.4	.9	.2	.1	.0	.1	13.2	
.0	.0	.*	.9	2.4	1.7	.2	.2	.0	.*	15.5	
.0	.0	.2	1.0	1.8	.5	.1	.0	.0	.0	8.2	
.0	.0	.2	.5	2.0	1.1	.6	.0	.0	.0	7.3	
.2	.4	.4	3.1	5.7	2.3	.3	.0	.0	.1	11.3	
.2	.0	.0	1.4	2.1	.3	.0	.0	.0	.*	5.0	
.0	.0	.2	.2	.3	.3	.0	.0	.0	.0	.2	
.0	.0	.0	.4	.5	.6	.0	.*	.0	.0	1.3	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	1.7	
2	2	7	43	86	43	7	2	0	2	333	533
.4	.4	1.3	8.1	16.1	8.1	1.3	.4	.0	.4	63.6	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>6500	.2	.4	.4	.4	.4	.4	.4	.4
>5000	.7	.9	.9	.9	.9	.9	.9	.9
>3500	1.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2
>2000	8.7	10.4	10.6	10.6	10.6	10.6	10.6	10.6
>1000	20.7	25.6	26.7	26.7	26.7	26.7	26.7	26.7
>600	25.6	32.8	34.6	34.6	34.6	34.6	34.6	34.6
>300	25.7	33.9	35.9	35.9	35.9	35.9	35.9	35.9
>150	25.7	34.3	36.3	36.3	36.3	36.3	36.3	36.3
>0	26.1	34.6	36.7	36.7	36.7	36.7	36.7	36.7
TOTAL	141	187	198	198	198	198	198	198

TOTAL NUMBER OF OBS: 540

PCT FREQ NH <5/8: 63.3

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	TOTAL
13.4	13.1	14.1	9.8	9.6	5.8	7.1	9.1	13.9	603
								.0	

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.1	.0	.0	*	*	.0	.0	.0	.0	.2	
	NO PCP	.7	.5	.2	.3	.2	.1	.0	.1	.0	.0	2.1	
	TOT %	.7	.6	.2	.3	.2	.1	.0	.1	.0	.0	2.3	
1<2	PCP	.0	.0	.0	*	.1	.0	.0	.0	.0	.1	.2	
	NO PCP	.5	.5	.1	.3	.1	*	.0	.0	.0	.1	1.5	
	TOT %	.5	.5	.1	.3	.3	*	.0	.0	.0	.1	1.7	
2<5	PCP	.1	.1	.1	.1	.3	.1	.0	.1	.0	.1	.8	
	NO PCP	.2	.3	.2	.1	.6	.1	.1	.1	.0	.1	1.7	
	TOT %	.4	.3	.3	.2	.9	.2	.1	.1	.0	.1	2.5	
5<10	PCP	.7	.4	.4	1.1	1.9	1.0	.4	.2	.0	.0	6.1	
	NO PCP	7.6	9.5	5.0	6.4	9.3	3.7	1.0	1.1	.0	.5	44.2	
	TOT %	8.4	9.9	5.4	7.6	11.2	4.7	1.4	1.3	.0	.5	50.3	
10+	PCP	.2	.2	.1	.1	.3	.1	.1	.1	.0	.1	1.3	
	NO PCP	6.6	9.7	4.9	4.9	8.3	3.3	1.4	1.3	.0	1.4	41.8	
	TOT %	6.8	9.9	5.0	5.0	8.5	3.4	1.5	1.4	.0	1.5	43.1	
TOT OBS													1981
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	*	
	4-10	.0	.0	.0	*	*	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	*	.1	.0	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0		.2	*	.0	.0	.0	.0	.0	.2	
1/2<1	0-3	*	.1	.0	.0	*	.0	.0	*	.0	.0	.2	
	4-10	.1	.2	.1	.1	.1	*	.0	*	.0	.0	.6	
	11-21	.2	.2	.1	.1	.1	*	.0	.0	.0	.0	.8	
	22+	.2	*	.0	*	*	*	.0	.0	.0	.0	.4	
	TOT %	.7	.5	.2	.3	.2	.1	.0	.1	.0	.0	2.0	
1<2	0-3	.0	.0	.0	*	*	.0	.0	.0	.0	.1	.1	
	4-10	.1	.1	*	.2	.2	.0	.0	.0	.0	.0	.6	
	11-21	.3	.2	*	*	.1	*	.0	.0	.0	.0	.7	
	22+	.1	*	.1	.1	*	.0	.0	.0	.0	.0	.3	
	TOT %	.5	.4	.1	.3	.3	*	.0	.0	.0	.1	1.8	
2<5	0-3	.1	.1	.2	.1	.1	.0	.1	*	.0	.1	.9	
	4-10	.1	.2	.1	.1	.3	.1	*	*	.0	.0	.9	
	11-21	.2	.1	*	.1	.4	.1	.0	*	.0	.0	1.0	
	22+	*	.1	*	.0	.1	*	.0	*	.0	.0	.3	
	TOT %	.5	.5	.4	.3	.9	.2	.1	.1	.0	.1	3.0	
5<10	0-3	.6	.8	.4	.8	.3	.3	.3	.2	.0	.5	4.2	
	4-10	2.5	4.7	2.9	3.7	4.1	1.8	.5	.5	.0	.0	20.5	
	11-21	3.8	3.4	1.3	1.9	3.8	1.4	.3	.4	.0	.0	16.3	
	22+	.9	.6	.3	.6	2.2	.9	.2	.1	.0	.0	5.9	
	TOT %	7.8	9.4	5.0	7.0	10.3	4.4	1.3	1.2	.0	.5	46.9	
10+	0-3	.6	.7	.5	.6	.6	.6	.4	.2	.0	1.5	5.6	
	4-10	2.9	5.1	3.5	3.1	3.0	1.2	.8	.6	.0	.0	20.3	
	11-21	2.7	4.8	1.6	1.5	3.9	1.1	.4	.5	.0	.0	16.6	
	22+	.8	.3	.0	.1	1.4	.8	.1	.1	.0	.0	3.5	
	TOT %	7.0	10.9	5.5	5.3	9.0	3.7	1.7	1.5	.0	1.5	46.0	
TOT OBS													2202
TOT PCT													100.0

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	1.6	6.5	14.6	11.4	.0	.8	.0	.0	35.0	65.0	123
06009	.0	.7	1.4	2.2	14.4	5.8	2.2	.0	.0	.0	26.6	73.4	139
12015	.5	.0	.5	9.7	18.4	5.4	.5	.5	.0	.5	36.2	63.8	185
18021	.8	.8	1.6	11.2	12.0	10.4	2.4	.8	.0	.8	40.8	59.2	125
TOT	2	2	7	43	87	45	7	3	0	2	198	374	572
PCT	.3	.3	1.2	7.5	15.2	7.9	1.2	.5	.0	.3	34.6	65.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	2.5	1.5	4.2	41.7	50.1	405
06009	.3	2.6	2.5	2.9	52.9	38.9	768
12015	.2	1.4	1.4	2.0	42.1	52.9	503
18021	.3	2.0	1.4	2.9	54.0	39.5	659
TOT	5	50	41	68	1143	1028	2335
PCT	.2	2.1	1.8	2.9	49.0	44.0	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	1.8	8.8	28.9	62.3	114
06009	.0	2.3	6.1	22.1	71.8	131
12015	.5	1.1	13.2	24.2	62.6	182
18021	.9	3.5	16.8	28.3	54.9	113
TOT	2	11	61	138	341	540
PCT	.4	2.0	11.3	25.6	63.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.1	.0	.2	.1	.0	.0	5	.4
80/84	.0	.1	.0	.2	.2	.9	.7	.1	26	2.1
75/79	.0	.1	.2	.7	.6	4.3	3.5	1.1	126	10.3
70/74	.0	.0	.2	1.1	5.4	8.8	13.7	9.6	475	38.9
65/69	.0	.0	.1	1.3	5.8	10.6	10.6	7.5	438	35.9
60/64	.0	.2	.0	.5	3.6	2.9	2.8	2.1	148	12.1
55/59	.0	.0	.0	.1	.0	.1	.1	.0	3	.2
TOTAL	0	4	7	48	193	338	382	249	1221	100.0
PCT	.0	.3	.6	3.9	15.8	27.7	31.3	20.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.1	.0	.0	.1	*	.1	.0	.0	.1
80/84	.0	.3	.3	.1	.1	*	.3	.1	.0	.2
75/79	2.5	2.3	1.4	.9	.8	.9	.4	.3	.0	.9
70/74	9.2	9.8	5.1	4.3	5.4	1.6	.5	1.8	.0	1.2
65/69	3.5	6.3	4.4	6.6	9.6	3.2	.9	.6	.0	.7
60/64	.2	.3	.9	2.0	5.1	2.3	.9	*	.0	.3
55/59	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0
TOTAL	15.9	19.1	12.1	13.9	21.3	8.2	3.0	3.0	.0	3.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	87	84	79	72	64	62	59	71.6	553
06009	87	81	77	70	64	62	60	70.2	887
12015	81	76	73	69	63	61	57	68.5	569
18021	83	78	75	68	63	60	57	68.4	756
TOT	87	81	77	69	63	61	57	69.6	2765

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	9.8	16.9	28.3	29.5	15.4	76	254		
06009	.0	3.7	20.9	27.2	27.9	20.2	78	401		
12015	.0	2.9	13.1	30.5	32.7	20.7	80	275		
18021	.0	3.6	10.3	25.1	36.0	25.1	81	331		
TOT	0	60	197	348	396	260	79	1261		

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PERIOD: (PRIMARY) 1905-1972
(OVER-ALL) 1857-1972

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	WD FOG
14/16	.0	.0	.1	.1	.1	.0	.0	.1	6	.0	.4
11/13	.0	.0	.0	.0	.0	.0	.2	.0	4	.0	.2
9/10	.0	.0	.0	.1	.2	.1	.0	.0	7	.0	.4
7/8	.0	.0	.1	.1	.4	.7	.1	.0	21	.0	1.3
6	.0	.0	.2	.2	.3	.6	.1	.0	21	.1	1.2
5	.0	.0	.0	.4	1.4	.4	.0	.0	35	.2	1.9
4	.0	.0	.4	1.1	1.7	.1	.1	.0	54	.2	3.2
3	.0	.1	.4	1.6	2.1	.1	.0	.0	69	.3	4.0
2	.0	.2	1.0	5.8	3.2	.2	.0	.0	187	.4	10.0
1	.0	.2	1.5	5.5	3.4	.3	.0	.0	177	.6	13.4
0	.0	.7	3.8	8.5	2.2	.1	.0	.0	246	1.3	14.0
-1	.0	.3	4.0	5.5	.8	.1	.0	.0	171	1.1	9.5
-2	.0	1.4	5.2	3.8	.9	.1	.0	.0	182	.4	10.9
-3	.1	1.1	4.8	1.9	.8	.0	.0	.0	140	.6	8.1
-4	.1	1.6	3.6	1.4	.3	.0	.0	.0	112	.3	6.7
-5	.0	1.6	1.9	.7	.1	.0	.0	.0	69	.1	4.2
-6	.0	1.1	1.6	.4	.0	.0	.0	.0	49	.0	3.1
-7/-8	.1	1.2	.9	.3	.0	.0	.0	.0	41	.0	2.6
-9/-10	.2	.9	.4	.0	.0	.0	.0	.0	24	.0	1.5
-11/-13	.1	.5	.0	.0	.0	.0	.0	.0	9	.0	.6
-14/-16	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	9	176	478	601	287	46	7	1	1605	92	1513
PCT	.6	11.0	29.8	37.4	17.9	2.9	.4	.1	100.0	5.7	94.3

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.3	.0	.0	.0	.0	.5	.3	.6	.0	.0	.0	.0	.0	.8	.8
1-2	.3	3.1	1.2	.5	.0	.0	4.5	.0	4.4	.8	.0	.0	.0	.0	5.2	.8
3-4	.0	2.2	2.2	.5	.0	.0	4.9	.0	3.8	4.6	.3	.0	.0	.0	8.8	.8
5-6	.0	.3	2.5	.4	.0	.0	3.2	.0	.3	2.4	.0	.0	.0	.0	2.6	.6
7	.0	.0	1.2	.6	.0	.0	1.8	.0	.3	1.1	.2	.0	.0	.0	1.6	.6
8-9	.0	.0	.5	.6	.0	.0	1.1	.0	.0	.3	.0	.0	.0	.0	.3	.3
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.1	.0	.0	.0	.1	.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3	.3
13-16	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	5.8	7.6	2.8	.0	.0	16.7	.3	9.3	9.2	1.1	.0	.0	.0	19.9	.0

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	2.5	.0	.0	.0	.0	2.5	.5	.6	.3	.0	.0	.0	.0	1.3	.3
1-2	.3	2.7	1.3	.0	.0	.0	4.3	.0	2.4	.7	.0	.0	.0	.0	3.1	.3
3-4	.0	1.1	1.5	.2	.0	.0	2.7	.1	1.8	1.6	.0	.0	.0	.0	3.4	.3
5-6	.0	.0	1.1	.0	.0	.0	1.1	.0	.3	1.1	.3	.0	.0	.0	1.6	.6
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.6	.0	.0	.0	.0	.6	.6
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.0	.4	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.3	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	6.2	4.1	.6	.0	.0	11.2	.6	5.0	4.6	.3	.0	.0	.0	10.5	.0

PERIOD: (OVER-ALL) 1963-1977

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	.4	.0	.0	.0	.0		.4	.3	.0	.0	.0	.0	.0		.3
1-2	.0	2.2	1.4	.0	.0	.0		3.6	.0	1.5	.1	.0	.0	.0		1.6
3-4	.2	1.4	3.9	.4	.0	.0		5.9	.0	.1	1.3	.1	.0	.0		1.5
5-6	.0	1.1	4.6	2.7	.2	.0		8.6	.0	.1	1.3	.1	.1	.0		1.7
7	.0	.0	1.1	.7	.0	.0		1.8	.0	.3	1.1	1.3	.0	.0		2.4
8-9	.0	.0	1.1	.6	.0	.0		1.7	.0	.3	.1	.6	.0	.0		1.0
10-11	.0	.0	1.1	.0	.0	.0		1.1	.0	.0	.1	.0	.0	.0		.7
12	.0	.0	.0	.8	.0	.0		.8	.0	.0	.0	.0	.3	.0		.0
13-16	.0	.0	.0	.3	.3	.0		.5	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.2	5.2	13.3	5.6	.4	.0		24.7	.3	2.0	3.9	2.8	.3	.0		9.4

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.3	.0	.0	.0	.0	.0		.3	.0	.3	.1	.0	.0	.0		.3	
1-2	.0	.0	.3	.0	.0	.0		.3	.0	.3	.1	.0	.0	.0		.3	
3-4	.0	.2	.0	.0	.0	.0		.2	.0	.3	1.2	.0	.0	.0		1.5	
5-6	.0	.3	.4	.5	.0	.0		1.2	.0	.0	.8	.3	.0	.0		1.1	
7	.0	.0	.3	.0	.0	.0		.3	.0	.0	.0	.1	.0	.0		.0	
8-9	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.1	.0	.0		.1	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	.4	1.0	.7	.0	.0		2.4	.0	.8	2.1	.5	.0	.0		3.4	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.5	4.5	.3	.0	.0	.0	8.3	
1-2	.5	16.4	5.8	.0	.0	.0	22.7	
3-4	.5	10.9	16.2	1.5	.0	.0	29.0	
5-6	.3	2.3	14.1	4.3	.3	.0	21.2	
7	.0	.3	5.6	2.8	.0	.0	8.6	
8-9	.0	.3	2.3	2.0	.0	.0	4.5	
10-11	.0	.0	1.3	1.0	.0	.0	2.3	
12	.0	.0	.0	1.3	.0	.0	1.3	
13-16	.0	.0	.0	.8	.5	.0	1.3	
17-19	.0	.0	.0	.5	.0	.0	.5	
20-22	.0	.0	.0	.3	.0	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.8	34.6	45.5	14.4	.8	.0	100.0	396

PERIOD: (OVER-ALL) 1949-1977

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.6	5.6	10.7	6.8	2.1	1.2	.4	.6	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	146	4
6-7	.0	.6	7.0	14.1	7.6	3.1	2.1	.4	1.7	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	191	6
8-9	.0	.2	2.3	2.9	4.3	4.1	.6	1.9	1.4	.6	.4	.2	.0	.0	.0	.0	.0	.0	.0	97	8
10-11	.0	.4	.8	.6	1.7	.6	.8	.0	1.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	8
12-13	.0	.0	.4	.0	1.0	.2	.6	.2	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	14	9
>13	.0	.0	.0	.4	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
INDET	.8	.4	1.0	1.0	1.4	.4	.2	.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	516	6
TOTAL	7	37	114	133	93	50	25	18	26	8	3	2	0	0	0	0	0	0	0	100.0	
PCT	1.4	7.2	22.1	25.8	18.0	9.7	4.8	3.5	5.0	1.6	.6	.4	.0	.0	.0	.0	.0	.0	.0		

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
N	3.2	2.7	1.0	.0	.0	.0	.1	7.0	.7	4.5	5.0	.0	2.7	.1	81.0		
NE	4.8	3.5	1.3	.0	.0	.0	.1	9.6	.7	3.2	3.8	.0	2.9	*	80.9		
E	5.6	5.2	2.1	.0	.0	.0	.1	12.9	1.4	2.3	3.8	.0	1.2	.0	79.1		
SE	6.1	8.0	1.9	.0	.0	.0	*	15.9	1.1	1.8	3.0	.0	1.1	.0	77.8		
S	5.4	8.5	1.7	.0	.0	.0	.1	15.6	1.9	2.4	2.5	*	1.2	.0	77.4		
SW	5.2	5.7	1.1	.0	.0	.0	*	12.1	1.6	3.4	2.8	*	1.2	*	80.1		
W	4.1	2.6	.9	.0	.0	.0	.2	7.8	1.5	4.1	3.0	.0	3.6	*	81.0		
NW	3.3	2.2	1.3	.0	.0	.0	.1	6.9	.7	4.6	4.6	.0	2.8	.1	81.0		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	2.1	.5	1.6	.0	.0	.0	.0	4.2	.2	1.3	2.2	.0	8.7	.0	83.4		
TOT PCT	4.5	4.9	1.3	.0	.0	.0	.1	10.7	1.1	3.1	3.5	*	2.2	*	80.2		
TOT DBS:	23874																

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA									
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA		
00003	4.0	3.7	1.3	.0	.0	.0	.1	9.2	1.2	.4	2.6	.0	3.2	*	83.6		
06009	4.5	5.0	1.3	.0	.0	.0	.1	10.8	.6	2.3	4.1	.0	2.5	.1	80.5		
12015	5.0	4.8	1.1	.0	.0	.0	.1	11.0	1.7	6.4	3.0	.0	1.1	*	78.4		
18021	4.6	5.8	1.3	.0	.0	.0	.1	11.8	1.1	3.4	4.1	*	2.0	.0	78.3		
TOT PCT	4.6	4.9	1.3	.0	.0	.0	.1	10.8	1.1	3.2	3.6	*	2.2	*	80.0		
TOT DBS:	25037																

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.2	5.4	5.3	1.3	.1	*		13.3	11.7		15.2	12.0	11.0	12.8	13.4	16.1	14.6	12.8
NE	1.3	7.0	3.5	.8	.1	.0		14.6	10.6		10.2	12.3	19.9	19.1	17.2	15.6	11.3	8.6
E	1.0	4.7	2.4	.5	.1	*		8.8	10.3		8.5	7.9	11.4	10.3	9.4	8.8	7.4	5.8
SE	1.1	5.9	4.2	1.2	.2	*		12.7	11.9		11.3	12.4	14.0	14.8	11.4	13.2	11.8	10.7
S	1.4	6.0	6.5	2.7	.7	.1		17.4	14.4		18.0	18.4	18.6	16.3	20.1	16.2	16.7	16.8
SW	1.4	4.5	4.7	2.3	.6	.1		13.5	13.9		16.4	15.0	11.6	10.6	12.3	11.7	15.1	17.3
W	1.2	3.7	3.3	1.4	.3	*		10.0	11.9		11.1	11.5	7.3	7.4	8.1	9.6	11.4	13.7
NW	1.0	3.4	2.2	.6	.1	*		7.3	10.3		7.8	7.6	5.0	5.7	6.4	7.2	8.9	10.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.4							2.4	.0		1.5	2.8	1.3	2.8	1.9	1.5	2.5	4.3
TOT DBS							32939		12.1		1606	5488	4744	5283	2446	4214	5382	3776
TOT PCT	12.0	40.7	34.1	10.7	2.2	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL DBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	3.4	6.5	2.9	.5	*		13.3	11.7	12.8	11.9	15.1	13.9
NE	4.1	7.8	2.4	.2	*		14.6	10.6	11.8	19.5	16.2	10.3
E	3.2	4.2	1.0	.3	*		8.8	10.3	8.0	10.9	9.0	6.7
SE	3.5	6.2	2.3	.6	.1		12.7	11.9	12.2	14.4	12.4	11.4
S	3.9	7.1	4.6	1.4	.3		17.4	14.4	18.3	17.4	17.7	16.8
SW	3.2	5.2	3.6	1.3	.2		13.5	13.9	15.3	11.1	11.9	16.0
W	2.9	3.8	2.3	.8	.1		10.0	11.9	11.4	7.3	9.1	12.4
NW	2.5	3.4	1.2	.2	*		7.3	10.3	7.7	5.4	6.9	9.3
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.4						2.4	.0	2.5	2.1	1.6	3.2
TOT DBS						32939		12.1	7094	10027	6660	9158
TOT PCT	29.2	44.2	20.4	5.3	.9		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	2.5	11.8	38.9	32.5	10.9	2.9	.4	12.2	100.0	7094
00009	2.1	9.1	41.6	35.0	10.0	1.9	.3	11.9	100.0	10027
12015	1.6	5.7	41.1	37.1	12.0	2.3	.2	12.9	100.0	6660
18021	3.2	11.2	40.8	32.3	10.3	2.0	.3	11.6	100.0	9158
TOT								12.1		32939
PCT	2.4	9.6	40.7	34.1	10.7	2.2	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	6.1	2.3	3.2	2.1		3.6
NE	6.2	2.1	3.4	2.1		3.8
E	3.0	1.8	2.8	1.9		4.3
SE	2.5	2.2	3.9	2.5		4.9
S	4.3	4.0	7.2	3.3		4.7
SW	4.3	3.2	4.9	1.5		4.2
W	4.9	1.8	2.2	1.1		3.4
NW	3.1	1.0	1.8	1.1		3.8
VAR	.0	.0	.0	.0		.0
CALM	1.1	.2	.3	.1		2.6
TOT OBS					6895	4.0
TOT PCT	35.6	18.9	29.6	15.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.1	.7	1.3	.6	.3	.1	.1	.2	10.3	
NE	.0	.0	.1	.8	1.5	.8	.4	.2	.1	.1	9.9	
E	*	*	.1	.8	1.2	.7	.3	.1	*	*	6.1	
SE	*	*	.2	.9	2.2	1.1	.4	.1	*	*	6.1	
S	*	*	.2	2.2	3.7	1.8	.4	.1	*	.1	10.3	
SW	.1	.0	.3	1.2	2.2	.9	.2	*	*	.1	9.0	
W	*	*	.1	.6	.9	.6	.1	.1	.0	.1	7.4	
NW	.0	.0	*	.4	.8	.5	.2	.1	*	.1	4.9	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	*	*	.1	.1	.0	.0	.0	.0	1.5	
TOT OBS	.3	.1	1.2	7.6	14.0	7.2	2.3	.7	.2	.7	65.5	6895
TOT PCT												100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >4500	.7	.9	.9	.9	.9	.9	.9	.9
= OR >5000	1.3	1.6	1.6	1.6	1.6	1.6	1.6	1.6
= OR >5500	3.4	4.0	4.0	4.0	4.0	4.0	4.0	4.0
= OR >2000	9.0	10.9	11.1	11.1	11.2	11.2	11.2	11.2
= OR >1000	19.9	24.4	25.0	25.0	25.0	25.1	25.1	25.1
= OR >600	24.2	31.2	32.5	32.7	32.7	32.7	32.7	32.7
= OR >300	24.7	32.0	33.6	33.8	33.9	33.9	34.0	34.0
= OR >150	24.7	32.1	33.7	34.0	34.0	34.1	34.1	34.1
= OR > 0	24.8	32.4	34.0	34.2	34.3	34.4	34.4	34.4

TOTAL NUMBER OF OBS: 6996

PCT FREQ NH <5/8: 65.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
	14.2	17.2	13.3	11.3	9.2	7.2	8.2	7.5	11.8	.2	7968

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	*	.0	*	*	.0	*	.0	.0	.0	.1	
	NO PCP	*	*	*	*	*	*	*	*	.0	*	.1	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.2	
1/2<1	PCP	*	*	*	.1	.1	*	*	*	.0	.0	.3	
	NO PCP	.3	.3	.1	.1	.2	.1	.1	.1	.0	*	1.5	
	TOT %	.4	.4	.1	.2	.3	.1	.1	.1	.0	*	1.8	
1<2	PCP	*	*	*	*	.1	*	*	*	.0	*	.2	
	NO PCP	.2	.2	.1	.1	.1	.1	.1	.1	.0	*	1.0	
	TOT %	.2	.3	.1	.1	.2	.1	.1	.1	.0	*	1.3	
2<5	PCP	.1	.1	.1	.1	.2	.2	.1	*	.0	*	.9	
	NO PCP	.1	.2	.1	.2	.4	.2	.2	.1	.0	.1	1.6	
	TOT %	.2	.3	.2	.3	.6	.4	.2	.2	.0	.1	2.5	
5<10	PCP	.6	.8	.8	1.5	1.9	1.1	.5	.3	.0	*	7.5	
	NO PCP	5.2	5.7	3.4	4.9	6.7	4.8	3.8	2.7	.0	.6	37.7	
	TOT %	5.8	6.5	4.2	6.3	8.6	5.9	4.3	3.0	.0	.6	45.2	
10+	PCP	.1	.2	.1	.2	.4	.3	.1	.1	.0	.1	1.8	
	NO PCP	6.6	6.8	4.1	5.1	7.8	6.7	5.2	3.7	.0	1.3	47.4	
	TOT %	6.7	7.0	4.2	5.3	8.3	7.0	5.4	3.8	.0	1.4	49.1	
TOT OBS													23893
TOT PCT													13.4 14.4 8.9 12.3 18.0 13.6 10.1 7.2 .0 2.1 100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	*	.0	*	*	.0	.0	*	.0	*	*	
	4-10	*	*	*	*	*	*	*	*	.0	*	.1	
	11-21	.0	*	*	*	*	*	.0	.0	.0	*	*	
	22+	*	*	*	*	*	*	*	*	.0	*	*	
	TOT %	*	*	*	*	*	*	*	*	.0	*	.2	
1/2<1	0-3	*	*	*	*	*	*	*	*	.0	*	.2	
	4-10	.1	.1	.1	.1	*	.1	*	*	.0	*	.6	
	11-21	.1	.1	*	.1	.1	*	*	*	.0	*	.6	
	22+	.1	*	*	*	.1	*	*	*	.0	*	.3	
	TOT %	.3	.3	.1	.2	.2	.1	.1	.1	.0	*	1.6	
1<2	0-3	*	*	*	*	*	*	*	*	.0	*	.2	
	4-10	*	.1	*	.1	.1	*	*	*	.0	*	.5	
	11-21	.1	.1	*	.1	.1	*	*	*	.0	*	.4	
	22+	.1	*	*	*	.1	*	*	*	.0	*	.3	
	TOT %	.2	.3	.1	.2	.2	.1	.1	.1	.0	*	1.4	
2<5	0-3	*	.1	.1	.1	.1	.1	*	*	.0	.1	.6	
	4-10	.1	.1	.1	.1	.2	.1	.1	*	.0	*	.9	
	11-21	.1	.1	.1	.1	.2	.1	*	*	.0	*	.7	
	22+	*	.1	*	*	.2	.2	*	*	.0	*	.6	
	TOT %	.3	.4	.3	.3	.7	.4	.2	.2	.0	.1	2.9	
5<10	0-3	.4	.6	.5	.5	.7	.6	.5	.4	.0	.6	4.8	
	4-10	2.1	2.9	1.9	2.6	2.7	1.7	1.4	1.2	.0	*	16.5	
	11-21	2.3	2.2	1.1	2.0	2.8	1.9	1.3	1.0	.0	*	14.6	
	22+	.6	.4	.4	.8	1.9	1.3	.8	.3	.0	*	6.4	
	TOT %	5.4	6.1	3.9	5.9	8.0	5.5	4.0	2.8	.0	.6	42.3	
10+	0-3	.7	.7	.5	.5	.7	.8	.7	.5	.0	1.5	6.6	
	4-10	2.9	3.6	2.6	2.9	3.1	2.6	2.0	1.9	.0	*	21.5	
	11-21	2.8	2.9	1.3	2.1	3.5	2.6	2.0	1.2	.0	*	18.4	
	22+	.6	.3	.1	.4	1.2	1.4	.9	.3	.0	*	5.1	
	TOT %	6.8	7.5	4.5	5.9	8.5	7.4	5.6	3.9	.0	1.5	51.6	
TOT OBS													26399
TOT PCT													13.1 14.6 8.9 12.6 17.7 13.6 10.1 7.2 .0 2.3 100.0

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <3/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL DBS	NH <3/8 ANY HGT	TOTAL DBS
00003	.1	.1	1.2	7.9	13.5	7.9	2.2	.7	.2	.8	34.6	65.4	1702
06009	.1	.2	1.0	7.2	11.7	6.5	3.0	.7	.2	.5	31.0	69.0	1639
12015	.5	*	1.2	7.1	13.3	6.1	1.6	.8	.1	.5	31.3	68.7	2341
18021	.3	.2	1.2	6.2	12.5	6.4	2.3	.4	.3	.7	30.5	69.5	1931
TOT													7613
PCT	.3	.1	1.1	7.1	12.9	6.7	2.2	.7	.2	.6	31.8	68.2	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL DBS
00003	.3	1.7	1.2	2.6	37.6	56.5	5012
06009	.1	2.1	2.0	3.9	49.3	42.6	8632
12015	.1	1.0	.8	1.9	37.9	50.2	5078
18021	.3	1.9	1.3	2.4	44.9	49.1	8048
TOT							27570
PCT	.2	1.7	1.4	2.8	43.5	50.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 3+	NH <3/8 AND 3+	TOTAL DBS
00003	.1	1.6	11.7	26.5	61.8	1572
06009	.2	1.7	10.3	25.0	64.7	1447
12015	.5	1.8	10.0	22.9	67.1	2223
18021	.3	1.9	9.8	24.0	66.2	1754
TOT						6996
PCT	.3	1.8	10.4	24.4	65.2	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
90/94	.0	.0	*	*	.0	*	.0	.0	*	*
85/89	.0	.0	*	.1	.1	*	*	*	.2	*
80/84	*	*	*	.2	.3	.2	.2	.1	1.1	*
75/79	.0	.1	.1	.6	.9	2.5	2.2	1.2	7.6	*
70/74	.0	.1	.3	1.2	3.9	6.0	6.9	4.6	23.0	*
65/69	.0	.1	.5	2.2	5.2	7.8	7.5	4.5	27.9	*
60/64	.0	.1	.6	2.5	6.7	7.0	5.8	2.6	25.3	*
55/59	.0	*	.2	1.3	2.9	3.6	3.1	1.2	12.2	*
50/54	.0	.0	*	.2	.5	.4	.8	.4	2.3	*
45/49	.0	.0	.0	.0	*	.1	.1	.1	.3	*
TOTAL									14898	100.0
PCT	*	.4	1.9	8.2	20.5	27.7	26.5	14.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	*	.0	*	.0	.0	*
*	*	*	*	*	*	*	*	.0	*
.2	.2	.1	.1	.1	.1	.1	.1	.0	.1
1.9	2.3	.8	.6	.5	.4	.3	.5	.0	.3
4.4	5.1	2.9	2.9	3.1	1.5	1.0	1.4	.0	.7
3.9	3.7	2.7	4.0	5.5	3.0	2.2	2.2	.0	.8
2.1	2.2	1.8	3.0	5.6	4.6	3.4	1.8	.0	.7
.5	.4	.4	1.1	2.7	3.5	2.4	.8	.0	.4
*	*	*	.1	.3	.7	.8	.2	.0	.1
.0	.0	.0	*	*	.1	.1	*	.0	*
13.1	14.0	8.8	11.9	17.7	13.9	10.4	7.1	.0	3.1

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00003	89	78	75	67	60	57	46	67.7	7029
06009	90	77	73	67	60	57	46	67.0	10107
12015	85	73	71	66	60	56	45	65.8	6826
18021	92	74	71	65	58	55	45	64.9	9472
TOT	92	76	73	66	59	56	45	66.3	33434

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00003	*	15.4	24.1	25.6	23.1	11.8	73	3084		
06009	*	11.4	20.4	28.4	25.3	14.3	75	4427		
12015	.0	8.9	20.4	28.7	26.8	15.1	76	3412		
18021	.0	7.1	17.7	27.3	30.2	17.8	78	4379		
TOT	2	1585	3114	4225	4077	2299	76	15302		

PERIOD: (PRIMARY) 1899-1973
(OVER-ALL) 1855-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION) VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)														TOT	W	WD
AIR-SEA	45	49	53	57	61	65	69	73	77	81	85	89				
TMP DIF	48	52	56	60	64	68	72	76	80	84	88	92				
20/22	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	1	.0	*	
17/19	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	.0	*	3	.0	*	
14/16	.0	.0	.0	.0	*	*	*	*	*	*	*	*	19	*	.1	
11/13	.0	.0	.0	.0	*	*	*	.1	*	*	*	*	47	.0	.2	
9/10	.0	.0	.0	*	.1	.1	.1	.2	.1	*	*	*	109	*	.6	
7/8	.0	.0	.0	*	.1	.2	.3	.2	.3	*	*	*	218	*	1.1	
6	.0	.0	.0	*	*	.1	.2	.2	.2	*	*	*	169	.1	.8	
5	.0	.0	.0	*	.2	.3	.4	.4	.3	*	.0	.0	300	.2	1.4	
4	.0	.0	*	.1	.3	.6	.8	.8	.2	*	.0	.0	539	.2	2.7	
3	.0	.0	*	.1	.4	.7	.9	.9	.1	*	.0	.0	589	.2	2.9	
2	.0	*	*	.2	.8	1.4	1.8	1.7	.4	.1	.0	.0	1212	.4	6.0	
1	.0	.0	.1	.2	1.0	1.8	2.1	1.8	.2	.0	.0	.0	1365	.5	6.7	
0	.0	*	.1	.6	2.2	3.0	3.8	2.0	.3	*	.0	.0	2300	.6	11.5	
-1	.0	*	.1	.9	2.0	2.5	3.0	1.3	.1	*	.0	.0	1877	.6	9.3	
-2	.0	*	.3	1.2	3.1	3.0	2.8	1.0	.1	.0	.0	.0	2195	.5	11.0	
-3	.0	*	.2	1.4	2.2	2.6	1.7	.5	*	.0	.0	.0	1658	.3	8.3	
-4	.0	*	.4	1.8	2.9	2.4	1.5	.4	*	.0	.0	.0	1761	.3	9.0	
-5	.0	.1	.4	1.9	2.3	1.9	.8	.2	*	.0	.0	.0	1446	.2	7.5	
-6	.0	.1	.3	1.4	1.5	1.1	.4	.1	.0	.0	.0	.0	925	.1	4.7	
-7/-8	*	.2	.9	2.2	2.0	1.1	.5	*	.0	.0	.0	.0	1290	.1	6.7	
-9/-10	*	.1	.6	1.1	.9	.4	.1	*	.0	.0	.0	.0	618	*	3.2	
-11/-13	*	.1	.4	.6	.2	.1	*	*	.0	.0	.0	.0	280	*	1.5	
-14/-16	.0	*	.1	.1	*	*	.0	.0	.0	.0	.0	.0	55	.0	.3	
-17/-19	*	*	*	*	.0	.0	.0	.0	.0	.0	.0	.0	13	.0	.1	
TOTAL													18989			
PCT	.1	.7	3.9	13.8	22.2	23.3	21.3	11.9	2.5	.3	*	*	100.0	4.3	95.7	

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.7	*	.0	.0	.0	1.0	.1	.3	*	.0	.0	.0	.9
1-2	.1	2.5	1.1	.0	.0	.0	3.7	.1	3.0	1.0	.0	.0	.0	4.1
3-4	*	1.4	2.8	.2	.0	.0	4.3	*	1.8	2.6	.1	.0	.0	4.6
5-6	.0	.2	1.9	.3	.0	.0	2.4	.0	.3	1.7	.3	.0	.0	2.2
7	.0	*	.7	.4	*	*	1.2	.0	.1	.7	.2	*	.0	.9
8-9	.0	.0	.2	.3	*	.0	.5	.0	.0	.1	.2	*	.0	.4
10-11	.0	*	*	.3	*	.0	.3	.0	.0	*	.2	*	.0	.2
12	.0	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	*	.0	.0	*
17-19	.0	.0	.0	*	*	.0	.1	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.2	6.0	6.2	1.0	.1	.0	13.5
TOT PCT	.4	4.9	6.7	1.7	.1	*	13.9	.2	6.0	6.2	1.0	.1	.0	13.5

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.3	.9	*	.0	.0	.0	1.2	.2	.3	*	.0	.0	.0	.8
1-2	.1	2.3	.5	.0	.0	.0	3.0	.1	2.1	.6	.0	.0	.0	2.8
3-4	*	1.1	1.7	.1	.0	.0	2.9	*	1.4	2.0	.1	.0	.0	3.6
5-6	.0	.3	1.2	.1	*	.0	1.6	.0	.3	1.7	.2	*	.0	2.4
7	.0	*	.3	.2	.1	.0	.6	.0	*	.7	.4	*	.0	1.2
8-9	.0	*	.1	*	*	.0	.2	.0	*	.1	.2	.0	.0	.3
10-11	.0	.0	.1	*	*	.0	.1	.0	.0	*	.1	.0	.0	.1
12	.0	.0	*	*	.0	.0	*	.0	.0	*	*	*	.0	.1
13-16	.0	.0	*	*	.1	.0	.1	.0	.0	.0	.1	*	.0	.2
17-19	.0	.0	*	*	*	.0	*	.0	.0	.0	.0	*	.0	*
20-22	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.0	.0	.0	.1
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.3	4.6	5.2	1.1	.1	*	11.4
TOT PCT	.5	4.6	3.8	.6	.3	.0	9.8	.3	4.6	5.2	1.1	.1	*	11.4

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.8	.4	.0	.0	.0	1.0	.2	.5	.0	.0	.0	.0	.7	
1-2	.2	2.1	1.0	.0	.0	.0	3.3	.0	1.1	2.1	.3	.0	.0	2.2	
3-4	.1	1.6	3.3	.2	.0	.0	5.1	.0	.2	1.8	.7	.2	.0	3.5	
5-6	.0	.3	2.7	1.1	.0	.0	4.2	.0	.0	.8	.8	.2	.0	1.8	
7	.0	.1	1.6	.7	.3	.0	2.6	.0	.1	.3	.4	.1	.0	.9	
8-9	.0	.0	.4	.6	.1	.0	1.2	.0	.0	.1	.5	.1	.0	.7	
10-11	.0	.0	.2	.4	.1	.0	.7	.0	.0	.0	.2	.1	.0	.3	
12	.0	.0	.1	.2	.1	.0	.4	.0	.0	.0	.1	.1	.0	.4	
13-16	.0	.0	.1	.2	.1	.0	.3	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.2	3.3	5.6	3.3	1.0	.0	13.6	
TOT PCT	.5	5.0	9.3	3.5	1.1	.1	19.6								

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.2	.6	.4	.0	.0	.0	.8	.2	.6	.0	.0	.0	.0	.7	
1-2	.1	1.4	.4	.0	.0	.0	2.0	.1	1.5	.4	.0	.0	.0	1.9	
3-4	.0	.7	1.7	.3	.0	.0	2.6	.0	.8	1.3	.0	.0	.0	2.1	
5-6	.0	.2	1.3	.5	.1	.0	1.9	.0	.1	.2	.2	.0	.0	.9	
7	.0	.0	.6	.5	.2	.0	1.1	.0	.0	.1	.1	.0	.0	.2	
8-9	.0	.0	.1	.2	.1	.0	.6	.0	.0	.0	.1	.0	.0	.1	
10-11	.0	.0	.0	.2	.1	.0	.3	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.2	3.0	2.7	.5	.1	.0	6.6	98.2
TOT PCT	.3	3.0	4.4	1.4	.6	.1	9.8								

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.9	5.4	.2	.0	.0	.0	9.4	
1-2	.9	16.5	5.5	.0	.0	.0	22.9	
3-4	.3	9.9	17.4	1.0	.3	.0	28.6	
5-6	.1	2.1	12.8	3.1	.7	.1	18.3	
7	.0	.3	5.5	3.3	.7	.1	9.9	
8-9	.0	.1	1.4	2.1	.5	.1	4.2	
10-11	.0	.0	.5	1.7	.3	.1	2.6	
12	.0	.0	.2	.8	.3	.0	1.3	
13-16	.0	.0	.2	.7	.3	.0	.6	
17-19	.0	.0	.0	.3	.2	.1	.4	
20-22	.0	.0	.0	.1	.2	.0	.2	
23-25	.0	.0	.0	.0	.1	.0	.1	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	5073
TOT PCT	5.3	34.4	43.6	13.0	3.4	.3	100.0	

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.5	7.3	11.3	6.3	3.0	.9	.7	.3	.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2033	4
6-7	.0	.8	6.2	9.8	6.6	3.1	2.1	.9	1.2	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	1980	6
8-9	.0	.2	2.0	3.7	4.7	3.1	2.4	1.2	1.5	.3	.3	.2	.1	.0	.0	.0	.0	.0	.0	1241	8
10-11	.0	.0	.7	.7	1.1	1.3	1.0	.5	.9	.3	.1	.1	.1	.0	.0	.0	.0	.0	.0	431	9
12-13	.0	.0	.3	.3	.4	.2	.3	.2	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	153	9
>13	.0	.0	.0	.2	.2	.1	.2	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	450	4
INDET	2.2	.9	.9	1.1	.8	.3	.3	.1	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	6373	6
TOTAL PCT	3.7	9.4	21.3	22.0	16.7	9.0	6.9	3.4	4.6	1.3	1.0	.4	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1899-1973
(OVER-ALL) 1855-1973

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TABLE 20

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH														
SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
85/86	.0	.0	*	.0	.0	.0	.0	.0	.0	.0	.0	.0	7	*
83/84	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	38	.1
81/82	.1	.8	.4	.1	.0	.0	.0	.0	.0	.1	.0	.2	197	.7
79/80	1.8	2.5	2.2	.8	.2	.0	.0	.0	*	.1	.1	1.5	575	2.1
77/78	4.2	8.2	6.7	2.0	.1	*	*	.0	.1	.2	.9	4.5	1521	5.5
75/76	10.8	16.5	18.1	7.5	1.9	*	*	.2	.2	1.1	4.1	10.6	2902	10.5
73/74	20.5	27.0	24.9	19.8	8.0	1.1	1.2	.3	1.6	3.2	8.0	23.1	3864	14.0
71/72	29.2	24.6	24.2	23.4	15.6	3.5	4.5	2.5	4.2	9.9	19.6	27.0	4147	15.1
69/70	22.8	13.9	15.7	21.6	21.2	12.7	4.5	8.5	10.2	16.2	24.5	21.4	3648	13.3
67/68	7.3	4.1	5.2	12.3	21.8	18.5	12.2	16.4	19.0	26.6	22.4	7.6	3457	12.6
65/66	1.7	1.0	1.6	8.1	16.3	20.7	17.5	28.3	29.6	25.9	14.3	3.0	3563	12.9
63/64	.8	.6	.6	3.2	10.3	24.6	25.0	21.8	22.1	10.3	3.5	.6	1951	7.1
61/62	.4	.2	.1	.8	2.1	10.7	18.9	21.8	8.0	4.6	1.6	.4	938	3.4
59/60	.2	.2	.0	.3	1.4	4.0	10.1	13.1	3.4	1.3	.6	.1	467	1.7
57/58	.0	.3	.0	.1	.6	2.8	6.7	5.8	.7	.6	.3	.1	154	.6
55/56	.0	.0	.0	.0	.3	.8	2.4	2.0	.7	.5	.1	.0	25	.2
53/54	.0	.0	.0	.0	.0	.2	1.0	.4	.3	.1	.0	.0	24	.1
51/52	.0	.0	.0	.0	.1	.0	.3	.4	.3	.1	.0	.0	8	*
49/50	.0	.0	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	1	*
47/48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	2771	2241	2720	2440	2429	2282	2148	2141	2061	1991	2023	2271	27518	100.0
MEAN	71.7	72.8	72.7	70.6	68.1	65.1	63.1	62.7	63.6	65.1	67.1	69.8	67.7	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1014	1013	1011	1012	1014	1012	1012	1012	1012	1695
FEB	1014	1014	1012	1013	1014	1013	1013	1014	1014	1858
MAR	1017	1016	1015	1016	1017	1016	1015	1016	1016	1923
APR	1019	1018	1016	1017	1018	1017	1017	1017	1017	1932
MAY	1020	1019	1018	1019	1019	1019	1018	1019	1019	1915
JUN	1019	1017	1017	1018	1018	1019	1017	1018	1018	1865
JUL	1019	1019	1017	1018	1018	1018	1017	1019	1018	1619
AUG	1017	1018	1016	1018	1018	1018	1017	1019	1018	1709
SEP	1017	1016	1015	1016	1018	1017	1017	1017	1016	1600
OCT	1016	1015	1014	1014	1017	1016	1014	1014	1015	1686
NOV	1015	1014	1013	1013	1014	1014	1013	1013	1014	1735
DEC	1013	1013	1012	1012	1013	1013	1012	1013	1012	1655
ANN	1017	1016	1015	1016	1017	1016	1015	1016	1016	20992
OBS	1608	3228	2802	3054	2454	2134	3429	2281		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	988	996	1002	1008	1012	1017	1022	1025	1029
FEB	991	999	1004	1009	1013	1018	1023	1025	1031
MAR	994	1001	1006	1012	1016	1020	1025	1029	1034
APR	992	1001	1006	1013	1018	1022	1027	1030	1036
MAY	996	1001	1005	1014	1020	1024	1029	1032	1036
JUN	988	998	1004	1013	1018	1023	1029	1034	1038
JUL	991	998	1006	1013	1019	1023	1029	1032	1039
AUG	990	998	1004	1012	1018	1023	1029	1033	1038
SEP	990	997	1003	1012	1017	1021	1026	1031	1034
OCT	987	996	1003	1010	1015	1020	1026	1028	1034
NOV	989	995	1002	1009	1014	1018	1024	1028	1032
DEC	990	998	1002	1008	1013	1017	1022	1025	1030

PERIOD: (PRIMARY) 1897-1973
(OVER-ALL) 1857-1973

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.9	.6	.3	.0	.0	.0	.0	2.5	1.1	5.0	7.5	.0	8.8	.0	76.2
NE	3.8	1.2	.2	.0	.0	.0	.0	5.0	.9	5.0	1.9	.0	4.4	.0	85.2
E	6.1	1.7	3.8	.0	.0	.0	.0	11.6	.0	3.6	1.3	.0	1.3	.0	82.2
SE	3.3	3.5	2.0	.0	.0	.0	1.2	10.0	.0	1.2	2.0	.0	2.0	.0	86.0
S	5.3	4.1	.5	.0	.0	.0	.4	10.2	1.4	2.4	2.2	.0	2.9	.0	82.6
SW	7.0	13.1	4.2	.0	.0	.0	1.0	25.3	1.3	5.3	2.7	.0	1.8	.0	65.1
W	3.2	8.6	1.1	.0	.0	.0	.0	12.8	.0	3.7	6.4	.0	1.1	.0	75.9
NW	1.3	6.3	.0	.0	.0	.0	.0	7.5	.0	.6	8.8	.0	.0	.0	83.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	13.4	.0	.0	.0	.6	.0	.0	15.4	.0	7.7	.0	.0	15.4	.0	61.5
TOT PCT	4.5	4.1	1.4	.0	.0	.0	.3	10.2	.9	3.7	3.3	.0	3.5	.0	79.7
TOT OBS:	1156														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.4	3.4	1.3	.0	.0	.0	.0	8.1	.8	.0	2.1	.0	3.4	.0	85.6
06009	3.7	3.7	.9	.0	.0	.0	.9	9.2	.0	2.3	3.4	.0	5.7	.0	80.8
12013	8.2	4.1	1.9	.0	.0	.0	.4	14.2	1.5	9.3	3.4	.0	1.5	.0	73.9
18021	3.5	4.9	1.4	.0	.0	.0	.0	9.8	1.2	3.8	4.9	.0	2.9	.0	78.0
TOT PCT	4.6	4.1	1.3	.0	.0	.0	.3	10.3	.8	3.8	3.6	.0	3.5	.0	79.4
TOT OBS:	1199														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	00					03	06	09	12	15	18	21	
N	1.1	6.3	7.8	1.6	.1	*		16.9	12.6		16.7	21.0	14.3	13.5	11.2	17.2	18.8	18.9
NE	.9	7.9	6.4	1.8	.1	.0		19.2	12.5		12.9	14.1	21.4	28.5	23.2	22.6	16.6	13.6
E	.6	5.2	2.3	.5	.3	.0		8.9	10.7		4.2	8.4	12.5	10.8	8.9	8.1	8.0	7.3
SE	.6	6.2	4.3	1.1	.1	.0		12.4	11.8		8.7	12.4	14.0	17.1	12.1	14.4	9.0	9.8
S	.8	6.3	11.0	3.2	.6	.0		21.9	14.6		30.4	21.6	21.8	18.4	29.0	17.8	21.4	22.5
SW	.2	3.5	9.7	2.4	.4	.0		12.2	15.8		17.9	12.8	11.7	7.5	10.0	11.3	14.5	13.0
W	.4	1.3	1.2	.7	.1	.0		3.6	14.1		2.0	4.5	2.7	2.6	1.4	3.0	5.0	5.7
NW	.2	2.0	1.0	.2	.2	.1		3.6	12.3		4.5	4.0	1.2	1.7	.5	4.0	4.9	7.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.4							1.4	.0		2.7	1.0	.3	.0	3.6	1.7	1.8	1.5
TOT OBS	112	711	769	211	35	2	1840		13.0		112	290	293	237	138	235	329	208
TOT PCT	6.1	38.6	41.8	11.5	1.9	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40					00	06	12	18
N	3.4	8.4	4.5	.5	.1		16.9	12.6	19.8	14.0	15.0	18.9
NE	3.9	9.9	4.9	.4	.1		19.2	12.5	13.8	24.6	22.8	13.4
E	3.5	3.9	1.1	.4	.1		8.9	10.7	7.3	11.7	8.4	7.7
SE	2.8	6.5	2.6	.4	*		12.4	11.8	11.4	15.4	13.5	9.3
S	3.2	10.8	6.3	1.4	.2		21.9	14.6	24.1	20.3	21.9	21.8
SW	1.5	5.1	4.6	1.0	.1		12.2	15.8	14.2	9.8	10.8	13.9
W	.8	1.6	.7	.5	.1		3.6	14.1	3.8	2.7	2.4	5.3
NW	1.3	1.5	.5	.2	.1		3.6	12.3	4.1	1.4	2.7	6.0
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.4						1.4	.0	1.3	.2	2.4	1.7
TOT OBS	397	878	464	89	12	1840		13.0	402	530	373	535
TOT PCT	21.6	47.7	25.2	4.8	.7		100.0		100.0	100.0	100.0	100.0

PERIOD: (PRIMARY) 1897-1973
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.5	5.2	38.6	41.0	11.9	1.7	.0	12.8	100.0	402
06009	.2	4.0	37.2	43.4	13.4	1.7	.2	13.7	100.0	530
12015	2.4	5.1	40.2	40.8	9.1	2.1	.3	12.6	100.0	373
18021	1.7	4.9	39.1	41.5	10.8	2.1	.0	12.8	100.0	535
TOT	25	87	711	769	211	35	2	13.0		1840
PCT	1.4	4.7	38.6	41.8	11.5	1.9	.1		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.9	1.9	1.9	2.1		3.1
NE	9.2	2.9	3.9	1.4		2.9
E	2.2	1.3	3.1	1.4		4.5
SE	3.0	2.1	3.0	2.3		4.7
S	5.0	4.0	9.9	10.2		5.6
SW	3.1	2.4	5.0	3.1		4.8
W	.7	.4	1.4	.3		4.6
NW	.7	.8	.3	.6		4.0
VAR	.0	.0	.0	.0		.0
CALM	.5	.5	.8	.8		5.3
TOT OBS	128	65	117	88	398	4.4
TOT PCT	32.2	16.3	29.4	22.1	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
.0	.0	.0	.4	.7	1.3	.2	.0	.0	.0	.0	11.2	
.0	.0	.0	.3	1.3	.7	.1	.3	.0	.0	.0	14.8	
.0	.0	.0	.0	1.9	.8	.3	.3	.0	.3	.0	4.5	
.0	.0	.3	.2	2.1	1.6	.5	.1	.0	.0	.0	9.7	
.0	.3	.2	3.6	7.9	3.5	.8	.8	.0	.5	.0	11.6	
.0	.0	.3	.4	1.8	1.4	1.3	.1	.0	.0	.0	8.4	
.0	.0	.0	1.0	.0	.2	.0	.0	.0	.0	.0	1.6	
.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	1.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.3	.8	.0	.0	.0	.0	.0	.0	1.5	
.0	1	3	25	67	38	12	6	0	3	243		398
.0	.3	.8	6.3	16.8	9.5	3.0	1.5	.0	.8	61.1	100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.5	.7	.7	.7	.7	.7	.7	.7
= OR >5000	1.7	2.0	2.2	2.2	2.2	2.2	2.2	2.2
= OR >3500	4.5	5.0	5.2	5.2	5.2	5.2	5.2	5.2
= OR >2000	12.4	14.1	14.4	14.4	14.4	14.4	14.4	14.4
= OR >1000	24.3	30.7	31.2	31.2	31.2	31.2	31.2	31.2
= OR >600	28.2	36.4	37.4	37.4	37.4	37.4	37.4	37.4
= OR >300	28.7	37.1	38.1	38.1	38.1	38.1	38.1	38.1
= OR >150	29.0	37.4	38.4	38.4	38.4	38.4	38.4	38.4
= OR >0	29.0	37.4	38.4	38.4	38.4	38.4	38.4	38.4
TOTAL	117	151	155	155	155	155	155	155

TOTAL NUMBER OF OBS: 404

PCT FREQ NH <5/8: 61.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	10.5	19.1	13.9	9.7	7.4	6.6	6.8	8.7	17.3	497

PERIOD: (PRIMARY) 1897-1973
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	*	*	.0	*	.1	.1	.0	.0	.0	.0	
	NO PCP	.8	.3	.1	.1	.5	.2	.2	.2	.0	.0	.0	
	TOT %	.8	.3	.1	.1	.5	.3	.3	.2	.0	.0	.0	
1<2	PCP	.0	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	1.1	.4	.1	.1	.3	.1	*	.1	.0	.0	.0	
	TOT %	1.1	.4	.2	.2	.3	.1	*	.1	.0	.0	.0	
2<5	PCP	*	*	.3	.2	.2	.3	*	*	.0	.0	.0	
	NO PCP	.2	.3	.2	.2	.2	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.3	.5	.4	.4	.3	*	*	.0	.0	.0	
5<10	PCP	.3	.5	.4	.8	1.8	2.5	.4	.2	.0	.2	.0	
	NO PCP	6.5	8.6	4.7	4.3	8.4	3.9	2.1	1.8	.0	.3	.0	
	TOT %	6.8	9.1	5.0	5.0	10.2	6.4	2.5	2.0	.0	.5	.0	
10+	PCP	.0	.3	.4	*	.4	.3	.0	.0	.0	.0	.0	
	NO PCP	6.5	7.8	3.9	5.2	11.6	5.4	1.2	1.1	.0	.6	.0	
	TOT %	6.5	8.1	4.4	5.2	11.9	5.8	1.2	1.1	.0	.6	.0	
TOT OBS													1155
TOT PCT													100.0

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	*	*	.0	.1	.1	
	4-10	.1	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	.0	.0	.1	.0	*	*	.0	.1	.1	
1/2<1	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	4-10	.2	.0	.1	.0	.0	.0	.1	*	.0	.0	.0	
	11-21	.4	.0	.0	.1	.3	.3	.1	.1	.0	.0	.0	
	22+	.1	.3	*	*	.1	.0	.0	.1	.0	.0	.0	
	TOT %	.8	.3	.1	.1	.4	.3	.2	.2	.0	.0	.0	
1<2	0-3	.1	*	*	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.3	.1	.1	.2	.1	*	.1	.0	.0	.0	
	11-21	.6	.2	.0	.3	.4	*	.0	.0	.0	.0	.0	
	22+	.0	.1	.1	.2	*	.1	.0	.0	.0	.0	.0	
	TOT %	1.0	.6	.3	.6	.6	.3	*	.1	.0	.0	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.3	.2	.2	.1	.3	.0	.0	.0	.0	.0	
	11-21	.2	.2	.1	.2	.2	.1	.1	*	.0	.0	.0	
	22+	.0	.1	.4	*	.3	.1	.0	.0	.0	.0	.0	
	TOT %	.4	.6	.7	.4	.6	.6	.1	*	.0	.0	.0	
5<10	0-3	.5	.4	.2	.3	.3	.1	.3	.1	.0	.4	.0	
	4-10	1.7	2.9	2.4	2.4	2.7	1.3	.8	1.0	.0	.0	.0	
	11-21	3.3	4.1	1.5	1.8	4.6	2.9	.6	.4	.0	.0	.0	
	22+	.8	1.0	.4	.6	1.9	1.5	.7	.4	.0	.0	.0	
	TOT %	6.4	8.4	4.5	5.1	9.5	5.9	2.3	1.8	.0	.4	.0	
10+	0-3	.2	.3	.4	.4	.5	.1	.0	.1	.0	.7	.0	
	4-10	3.0	4.3	2.9	3.5	3.6	1.8	.4	.7	.0	.0	.0	
	11-21	3.0	4.0	.9	1.8	6.4	2.7	.6	.4	.0	.0	.0	
	22+	.2	.4	.1	.1	1.1	1.3	.2	*	.0	.0	.0	
	TOT %	6.4	8.9	4.3	5.9	11.6	5.9	1.2	1.2	.0	.7	.0	
TOT OBS													1341
TOT PCT													100.0

JANUARY

PERIOD: (PRIMARY) 1897-1973
(OVER-ALL) 1857-1973

AREA 0008 CAPE HOWE NE
36.05 150.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.9	1.8	3.6	17.3	2.7	1.8	.9	.0	.9	30.0	70.0	110
06009	.0	.0	.0	3.3	12.4	7.4	1.7	1.7	.0	.0	26.4	73.6	121
12015	.0	.0	.0	7.3	15.4	12.2	4.1	2.4	.0	1.6	43.1	56.9	123
18021	.0	.0	1.0	7.8	14.6	10.7	2.9	.0	.0	.0	36.9	63.1	103
TOT	0	1	3	25	68	38	12	6	0	3	156	301	457
PCT	.0	.2	.7	5.5	14.9	8.3	2.6	1.3	.0	.7	34.1	65.9	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.6	3.9	2.4	40.8	51.4	255
06009	.2	2.4	4.4	4.6	48.3	40.0	412
12015	.0	2.6	1.3	2.9	37.7	55.5	308
18021	1.0	2.9	3.7	2.9	48.9	40.6	409
TOT	5	34	47	46	619	633	1384
PCT	.4	2.5	3.4	3.3	44.7	45.7	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGS OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <500	<600 <1	<1000 <5	1000+ AND5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	3.0	8.0	26.0	66.0	100
06009	.0	.0	5.0	28.0	67.0	100
12015	.0	.0	9.5	37.1	53.4	116
18021	.0	1.1	12.5	30.7	56.8	88
TOT	0	4	35	124	245	404
PCT	.0	1.0	8.7	30.7	60.6	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.0	.0	.0	.2	1	.2
75/79	.0	.0	.0	.7	.3	2.0	1.7	.8	33	5.5
70/74	.0	.0	.0	.7	4.1	4.8	6.1	7.0	137	22.7
65/69	.0	.0	.2	2.0	10.1	12.4	17.1	5.1	283	46.9
60/64	.0	.0	.0	2.5	7.1	7.5	3.6	2.3	139	23.1
55/59	.0	.0	.0	.0	.5	.7	.2	.3	10	1.7
TOTAL	0	0	1	35	134	165	173	95	603	100.0
PCT	.0	.0	.2	5.8	22.2	27.4	28.7	15.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0
75/79	1.8	1.8	.3	.2	.6	.2	.1	.2	.0	.2
70/74	6.6	7.0	.7	.7	4.7	1.4	.2	.7	.0	.7
65/69	7.2	7.9	5.0	6.4	11.2	5.1	1.8	1.5	.0	.8
60/64	.4	.6	1.8	3.0	10.0	6.1	1.0	.1	.0	.2
55/59	.0	.0	.0	.0	.4	1.0	.1	.0	.0	.2
TOTAL	16.0	17.3	8.0	10.3	26.8	13.8	3.2	2.6	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	83	80	77	69	62	59	57	69.2	386
06009	83	79	75	68	62	60	58	66.5	520
12015	78	75	73	67	61	58	54	67.2	378
18021	78	76	73	67	60	56	54	66.7	548
TOT	83	78	75	68	61	58	54	67.8	1832

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	13.6	24.8	20.8	29.6	11.2	74	123		
06009	.0	5.1	27.8	28.5	22.8	15.8	76	158		
12015	.0	1.9	23.6	29.2	30.4	14.9	78	161		
18021	.0	5.2	12.1	30.1	32.4	20.2	79	173		
TOT	0	37	134	170	178	98	77	617		

JANUARY

PERIOD: (PRIMARY) 1897-1973
(OVER-ALL) 1857-1973

TABLE 17

AREA 0008 CAPE HOWE NE
36.05 150.8EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 66	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
9/10	.0	.0	.2	.0	.1	.1	.0	.0	4	.1	.3
7/8	.0	.0	.1	.2	.4	.5	.2	.0	14	.0	1.4
6	.0	.0	.0	.1	.3	.1	.2	.1	8	.0	.8
5	.0	.0	.0	.3	.4	1.0	.1	.0	18	.0	1.8
4	.0	.0	.2	.8	1.2	1.2	.3	.0	37	.1	3.6
3	.0	.1	.1	1.1	1.9	.5	.1	.1	39	.2	3.7
2	.0	.0	.3	1.6	3.4	2.4	.2	.0	79	.6	7.2
1	.0	.0	.5	2.0	5.3	2.0	.1	.0	100	.6	9.3
0	.0	.2	2.3	5.3	6.5	1.2	.2	.0	159	.7	15.0
-1	.0	.0	2.0	5.4	4.1	.1	.0	.0	118	.3	11.4
-2	.0	.2	2.9	7.1	2.9	.5	.0	.0	137	.3	13.2
-3	.0	.1	2.1	4.5	1.6	.2	.1	.0	87	.2	8.4
-4	.0	.4	2.0	4.5	.6	.1	.0	.0	77	.0	7.6
-5	.0	.4	2.1	2.4	.1	.2	.0	.0	52	.2	4.9
-6	.0	.3	1.8	1.0	.2	.0	.0	.0	33	.1	3.2
-7/-8	.1	.7	2.0	.6	.0	.0	.0	.0	34	.1	3.3
-9/-10	.1	.7	.6	.1	.0	.0	.0	.0	15	.0	1.5
-11/-13	.0	.0	.0	.1	.0	.0	.0	.0	1	.0	.1
TOTAL	2	31	192	376	293	102	15	2	1013	3.5	96.5
PCT	.2	3.1	19.0	37.1	28.9	10.1	1.5	.2	100.0	3.5	96.5

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.0	.3	.0	.0	.0	.0	.3
1-2	.0	3.7	.6	.0	.0	.0	4.3	.0	5.4	1.2	.0	.0	.0	6.5
3-4	.0	1.4	4.2	.2	.0	.0	5.9	.3	1.9	2.5	.3	.0	.0	5.0
5-6	.0	.6	1.5	.6	.0	.0	2.6	.0	.4	1.4	.7	.0	.0	2.6
7	.0	.0	.6	.2	.0	.0	.8	.0	.0	1.4	.4	.0	.0	1.8
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	6.3	7.1	1.1	.0	.0	14.4	.3	8.0	6.4	1.5	.0	.0	16.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	1.3	.0	.0	.0	.0	1.3	.3	.7	.3	.0	.0	.0	1.3
1-2	.0	.6	.9	.0	.0	.0	1.5	.0	2.8	.5	.0	.0	.0	3.3
3-4	.0	1.2	.5	.0	.0	.0	1.7	.0	1.4	1.0	.0	.0	.0	2.4
5-6	.0	.0	.9	.0	.0	.0	.9	.0	.1	1.7	.0	.0	.0	1.8
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.1	2.3	.0	.0	.0	5.4	.3	5.0	4.0	.2	.1	.0	9.5

PERIOD: (OVER-ALL) 1963-1973

JANUARY
TABLE 18 (CONT)

AREA 0008 CAPE HOWE NE
36.0S 150.8E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

S								SW								PCT
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.3	.3	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0		
1-2	.7	7.1	1.5	.0	.0	.0	9.2	.0	2.7	.7	.0	.0	.0	3.4		
3-4	.0	.9	7.2	.0	.0	.0	8.1	.0	2.3	2.1	.3	.0	.0	4.8		
5-6	.0	.8	6.4	1.0	.0	.0	8.3	.0	.1	2.0	.0	.0	.0	2.1		
7	.0	.0	2.5	1.4	1.0	.0	4.9	.0	.0	.7	1.8	.0	.0	2.6		
8-9	.0	.0	.2	.0	.2	.0	.5	.0	.0	.4	.3	.3	.0	1.1		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	1.0	9.2	17.8	3.6	1.2	.0	32.8	.0	5.1	5.9	2.5	.3	.0	13.9		

W								NW								TOTAL PCT
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.4		
1-2	.0	.3	.0	.0	.0	.0	.3	.0	.5	.0	.0	.0	.0	.5		
3-4	.0	.0	.2	.0	.0	.0	.2	.0	.7	.4	.1	.0	.0	1.2		
5-6	.0	.0	.5	.3	.0	.0	.8	.0	.0	.7	.0	.0	.0	.7		
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
8-9	.0	.0	.0	.7	.0	.0	.7	.0	.0	.1	.0	.0	.0	.1		
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	.3	.7	1.0	.0	.0	2.1	.0	1.7	1.2	.1	.0	.0	3.0		

97.4

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.6	3.6	.3	.0	.0	.0	7.5	
1-2	1.3	22.9	5.2	.0	.0	.0	29.4	
3-4	.3	9.8	18.0	1.0	.0	.0	29.1	
5-6	.0	2.0	15.0	2.6	.0	.0	19.6	
7	.0	.0	5.6	3.9	1.0	.0	10.5	
8-9	.0	.0	1.0	1.0	.7	.0	2.6	
10-11	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.7	.0	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.3	.0	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.3	.0	.0	.3	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.2	38.2	45.1	9.8	1.6	.0	100.0	306

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SEC)																					
PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	9.3	11.1	9.8	3.2	1.1	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	136	4
6-7	.3	.8	11.9	10.1	7.7	3.2	1.1	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	133	5
8-9	.0	.3	1.9	3.4	5.8	1.1	1.1	.3	.8	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	59	8
10-11	.0	.8	.5	1.1	1.9	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	6
12-13	.0	.0	.0	.0	.5	.5	.3	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	5	8
>13	.0	.0	.0	.5	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	12
INDET	1.3	1.9	.8	1.6	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	3
TOTAL	10	49	99	100	72	24	12	.1	4	2	4	.0	1	.0	.0	.0	.0	.0	.0	978	5
PCT	2.6	13.0	26.2	26.5	19.0	6.3	3.2	.3	1.1	.5	1.1	.0	.3	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1898-1971
(OVER-ALL) 1856-1971

FEBRUARY

AREA 0008 CAPE HOWE NE
36.05 150.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
WND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
N	2.8	4.4	1.0	.0	.0	.0	.0	8.3	.3	5.4	4.5	.0	6.7	.5	75.0
NE	4.8	2.6	.4	.0	.0	.0	.4	8.4	1.5	3.4	2.1	.0	2.4	.0	84.0
E	6.9	3.2	1.1	.0	.0	.0	.0	11.1	.0	2.6	2.1	.0	.5	.0	84.1
SE	2.7	4.9	.9	.0	.0	.0	.0	8.4	1.1	2.2	3.1	.0	3.3	.0	81.8
S	5.4	4.0	2.4	.0	.0	.0	.0	11.8	2.1	1.5	1.7	.0	1.6	.0	82.1
SW	6.7	4.4	1.3	.0	.0	.0	.0	12.4	1.1	2.5	3.4	.0	.4	.0	81.1
W	3.8	7.5	.0	.0	.0	.0	.0	11.3	6.6	3.8	5.7	.0	.0	.0	72.6
NW	1.2	3.5	.0	.0	.0	.0	.0	4.7	2.3	9.9	1.2	.0	2.3	.0	79.3
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	12.5	.0	.0	.0	.0	.0	.0	12.5	.0	.0	12.5	.0	12.5	.0	62.5
TOT PCT	4.6	3.9	1.1	.0	.0	.0	.1	9.8	1.3	3.3	2.8	.0	2.7	.1	80.8
TOT OBS:	1055														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOUR (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	4.3	1.9	1.9	.0	.0	.0	.0	8.2	.5	.0	3.8	.0	1.4	.0	86.1
06009	4.5	3.5	.3	.0	.0	.0	.0	8.4	.6	2.6	3.2	.0	2.6	.3	83.3
12015	4.5	4.9	1.5	.0	.0	.0	.4	11.4	1.9	6.1	1.5	.0	2.7	.0	78.4
18021	5.3	6.5	1.5	.0	.0	.0	.0	13.3	1.9	5.0	2.5	.0	3.4	.0	74.9
TOT PCT TOT OBS:	4.7 1106	4.4	1.3	.0	.0	.0	.1	10.5	1.3	3.6	2.7	.0	2.6	.1	80.2

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.1	7.2	7.9	1.9	.1	.0		18.1	12.6		19.9	18.4	13.1	16.3	19.2	19.1	19.3	21.1
NE	1.6	9.0	9.1	1.9	.2	*		21.8	12.1		14.5	24.7	25.2	26.9	23.1	23.0	18.8	13.2
E	.8	5.8	2.5	.5	*	*		9.6	9.7		7.4	8.4	11.4	12.6	9.4	13.3	5.5	9.5
SE	.5	5.3	4.6	.8	.1	.1		11.5	12.0		4.0	9.5	12.5	14.1	12.0	13.1	11.0	11.9
S	.9	6.9	9.0	3.5	.8	.1		21.2	15.4		29.3	21.6	23.7	19.8	21.1	15.8	22.5	19.9
SW	.5	2.6	4.3	2.0	.3	.1		9.9	16.0		14.5	9.3	9.6	7.5	10.6	8.1	10.8	12.4
W	*	.9	.9	.4	.1	.0		2.3	14.3		2.8	3.1	1.0	.9	1.9	2.3	2.8	3.5
NW	.2	2.2	1.4	.1	*	.0		3.9	10.3		4.3	3.3	2.3	.7	2.1	4.1	6.7	7.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0		3.4	1.7	1.2	1.3	.7	1.4	2.6	1.5
TOT OBS	128	697	691	195	30	7	1748		12.8		88	302	253	227	146	222	309	201
TOT PCT	7.3	39.9	39.5	11.2	1.7	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	3.7	9.3	4.6	.5	.1		18.1	12.6	18.7	14.6	19.2	20.0	
NE	5.1	11.4	4.5	.8	*		21.8	12.1	22.4	26.0	23.0	16.6	
E	3.5	4.9	1.0	.2	*		9.6	9.7	8.2	11.9	11.8	7.1	
SE	2.4	6.6	2.2	.2	.1		11.5	12.0	8.3	13.3	12.6	11.4	
S	2.7	10.1	6.3	1.7	.5		21.2	15.4	23.3	21.9	17.9	21.5	
SW	1.8	3.6	3.3	1.2	.2		9.9	16.0	10.4	8.6	9.1	11.4	
W	.5	1.1	.5	.1	.1		2.3	14.3	3.1	.9	2.1	3.1	
NW	1.1	2.3	.5	*	.0		3.9	10.3	3.5	1.5	3.3	6.8	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.7						1.7	.0	2.1	1.3	1.1	2.2	
TOT OBS	391	859	399	83	16	1748		12.8	390	480	368	510	
TOT PCT	22.4	49.1	22.8	4.7	.9		100.0		100.0	100.0	100.0	100.0	

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PERIOD: (PRIMARY) 1896-1971
(OVER-ALL) 1856-1971

AREA 0008 CAPE HOWE NE
36.0S 150.7E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)				48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47					
0000Z	2.1	5.9	39.0	36.2	14.9	1.5	.3	13.0	100.0	390	
0600Z	1.3	4.4	37.9	43.1	11.0	1.7	.6	13.4	100.0	480	
1201Z	1.1	5.4	41.6	40.2	9.8	1.9	.0	12.3	100.0	368	
1802Z	2.2	6.9	41.2	38.2	9.4	1.8	.4	12.5	100.0	510	
TOT	29	99	697	691	195	30	7	12.8		1748	
PCT	1.7	5.7	39.9	39.5	11.2	1.7	.4	100.0			

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL CLOUD COVER	MEAN CLOUD COVER
N	7.8	2.4	5.4	2.0		3.5
NE	10.1	1.9	5.2	2.4		3.5
E	1.7	1.0	3.0	1.7		5.2
SE	2.3	1.6	3.7	2.6		5.1
S	6.2	4.6	9.8	6.5		5.0
SW	2.6	1.8	3.9	3.9		5.3
W	.3	.1	.7	.2		5.3
NW	1.6	.3	.9	.3		3.6
VAR	.0	.0	.0	.0		3.0
CALM	.8	.3	.3	.5		3.8
TOT OBS	127	54	124	77	382	4.4
TOT PCT	33.2	14.1	32.5	20.2	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.7	.4	1.5	.5	.9	.1	.4	.0	13.1	
NE	.0	.0	.6	1.2	3.0	1.0	.4	.0	.1	.0	13.3	
E	.0	.0	.3	.8	1.4	.5	.3	.0	.0	.0	4.2	
SE	.0	.0	.0	1.4	1.2	1.4	1.6	.0	.0	.0	4.1	
S	.0	.0	.0	2.8	5.6	3.2	2.0	.3	.5	.0	12.6	
SW	.0	.3	.0	2.1	2.2	1.0	.9	.0	.5	.0	5.3	
W	.0	.0	.0	.2	.5	.2	.0	.0	.0	.0	.4	
NW	.0	.0	.3	.0	.3	.0	.0	.1	.0	.0	2.5	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.3	.0	.0	.0	.3	.0	.0	.0	.0	.3	1.0	
TOT OBS	1	1	7	34	61	30	23	2	6	1	216	382
TOT PCT	.3	.3	1.8	8.9	16.0	7.9	6.0	.5	1.6	.3	56.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	1.5	1.8	1.8	1.8	1.8	1.8	1.8	1.8
= OR >5000	2.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3
= OR >3500	6.6	7.8	8.4	8.4	8.4	8.4	8.4	8.4
= OR >2000	12.9	14.9	15.9	15.9	15.9	15.9	15.9	15.9
= OR >1000	25.1	31.1	32.7	32.7	32.7	32.7	32.7	32.7
= OR >600	30.6	38.5	40.6	41.0	41.0	41.0	41.0	41.0
= OR >300	31.1	39.7	42.5	42.8	42.8	42.8	42.8	42.8
= OR >150	31.1	40.0	42.8	43.0	43.0	43.0	43.0	43.0
= OR >0	31.4	40.3	43.0	43.3	43.3	43.5	43.5	43.5
TOTAL	124	159	170	171	171	172	172	172

TOTAL NUMBER OF OBS: 395

PCT FREQ NH <5/8: 56.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
10.8	17.9	14.1	7.4	7.4	8.0	9.2	11.6	13.5	502

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PERIOD: (PRIMARY) 1898-1971
(OVER-ALL) 1856-1971AREA 0008 CAPE HOWE NE
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	*	.2	.1	.0	*	.0	.0	.4	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	TOT %	*	.0	.0	*	.2	.1	.0	*	.0	.1	.5	
1/2<1	PCP	.1	*	.1	.0	*	.2	.1	.0	.0	.0	.7	
	NO PCP	.7	.2	.0	.1	.3	.1	.0	*	.0	.0	1.5	
	TOT %	.8	.3	.1	.1	.4	.3	.1	*	.0	.0	2.2	
1<2	PCP	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.4	
	NO PCP	.8	.4	*	.2	*	.1	.0	.1	.0	.0	1.7	
	TOT %	.8	.6	*	.2	.2	.1	.0	.1	.0	.0	2.1	
2<5	PCP	.1	.2	.1	.2	.4	.2	.1	.0	.0	.0	1.3	
	NO PCP	.7	.2	.1	.0	.1	.1	*	*	.0	.0	1.2	
	TOT %	.8	.4	.3	.2	.5	.3	.1	*	.0	.0	2.6	
5<10	PCP	.9	1.1	.5	.4	1.2	.5	.1	.1	.0	.0	4.7	
	NO PCP	6.1	8.8	3.6	3.5	7.9	3.4	1.1	1.8	.0	.1	26.3	
	TOT %	6.9	9.9	4.1	3.9	9.0	3.9	1.2	2.0	.0	.1	41.0	
10+	PCP	.4	.2	.2	.3	.6	.4	.0	.0	.0	.1	2.3	
	NO PCP	8.6	10.1	4.2	5.9	11.0	6.2	1.1	1.9	.0	.5	49.4	
	TOT %	8.9	10.4	4.4	6.2	11.6	6.6	1.1	1.9	.0	.6	51.7	
TOT OBS													1055
TOT PCT		18.3	21.6	9.0	10.7	21.9	11.3	2.5	4.1	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	*	.0	.0	.0	.0	.0	.0	*	.0	.1	.2		
	4-10	*	.0	.0	.0	.0	.0	.0	*	.0	.0	.1		
	11-21	.0	.0	.0	*	.2	.1	.0	.0	.0	.0	.3		
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	TOT %	.1	.0	.0	*	.2	.1	.0	.1	.0	.1	.6		
1/2<1	0-3	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.2		
	4-10	.1	.0	.0	*	.2	.2	.0	*	.0	.0	.7		
	11-21	.5	.2	.0	.0	.1	.0	.1	*	.0	.0	1.0		
	22+	.2	.0	.1	.0	*	.1	.0	.0	.0	.0	.4		
	TOT %	.9	.2	.1	.1	.3	.4	.1	.1	.0	.0	2.2		
1<2	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1		
	4-10	.2	.1	*	.1	*	.0	*	*	.0	.0	.5		
	11-21	.4	.1	*	.2	.0	.0	.0	.1	.0	.0	.8		
	22+	.2	.2	.0	.0	.2	.1	.0	.0	.0	.0	.6		
	TOT %	.7	.5	.1	.2	.2	.1	.0	.1	.0	.0	2.0		
2<5	0-3	.1	.1	.1	.0	.0	.0	.0	.1	.0	.1	.4		
	4-10	.6	.2	.2	.2	.1	.1	.1	.1	.0	.0	1.6		
	11-21	.2	.3	.0	.1	.2	*	.0	.0	.0	.0	.9		
	22+	*	.2	*	*	.3	.1	.0	.0	.0	.0	.8		
	TOT %	.9	.8	.3	.3	.7	.3	.1	.2	.0	.1	3.7		
5<10	0-3	.1	.7	.4	.1	.3	.0	.0	.1	.0	.2	1.9		
	4-10	2.2	3.1	2.1	1.9	2.3	.9	.4	.9	.0	.0	13.7		
	11-21	3.3	4.0	1.2	1.4	3.7	2.1	.3	.8	.0	.0	16.8		
	22+	.7	1.2	.2	.4	2.0	.6	.3	*	.0	.0	5.5		
	TOT %	6.3	8.9	3.9	3.8	8.3	3.6	1.0	1.8	.0	.2	37.9		
10+	0-3	.5	.6	.5	.4	.4	.4	.0	.1	.0	1.1	3.9		
	4-10	3.5	4.9	4.0	3.1	4.6	1.8	.4	1.1	.0	.0	23.4		
	11-21	3.9	4.8	.9	2.7	4.9	2.7	.4	.6	.0	.0	21.0		
	22+	1.0	.7	.0	.5	1.6	1.3	.2	*	.0	.0	5.3		
	TOT %	8.9	11.1	5.4	6.7	11.5	6.1	1.0	1.8	.0	1.1	53.6		
TOT OBS														1216
TOT PCT		17.8	21.6	9.9	11.2	21.2	10.5	2.2	4.1	.0	1.5	100.0		

PERIOD: (PRIMARY) 1898-1971
(OVER-ALL) 1856-1971

FEBRUARY

TABLE 10

AREA 0008 CAPE HOWE NE
36.05 150.7E

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HRUR (GMT)	000 149	190 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	1.0	.0	1.9	5.8	14.6	5.8	3.9	1.0	.0	.0	34.0	66.0	103
06009	.0	.0	1.7	6.9	10.3	6.0	6.0	.0	2.6	.9	34.5	65.5	116
12015	.7	.7	2.2	10.1	15.8	8.6	7.2	.7	2.2	.0	48.2	51.8	139
18021	.0	.0	.0	5.8	16.3	4.8	2.9	.0	.0	.0	29.8	70.2	104
TOT	2	1	7	34	66	30	24	2	6	1	173	289	462
PCT	.4	.2	1.5	7.4	14.3	6.5	5.2	.4	1.3	.2	37.4	62.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HRUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.9	3.7	.0	5.0	32.9	57.5	219
06009	.3	2.8	2.2	3.0	44.2	47.5	362
12015	.6	1.0	2.6	3.5	30.1	62.2	312
18021	.5	2.4	2.1	3.2	43.2	48.5	375
TOT	7	30	24	45	488	674	1268
PCT	.6	2.4	1.9	3.5	38.5	53.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HRUR (GMT)	<150 <500D	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	1.1	3.4	13.6	28.4	58.0	88
06009	.0	2.3	12.5	31.8	55.7	88
12015	.7	3.7	15.6	34.1	50.4	135
18021	.0	.0	10.7	28.6	60.7	84
TOT	2	10	53	123	219	393
PCT	.5	2.5	13.4	31.1	55.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.5	.2	.0	.2	.0	.0	5	.8
75/79	.0	.0	.2	.8	.7	2.7	1.7	.3	38	6.4
70/74	.0	.0	.2	.7	3.7	6.5	16.1	10.1	222	37.2
65/69	.0	.0	.0	2.5	7.9	12.8	12.1	5.5	243	40.8
60/64	.0	.0	.0	1.0	3.9	3.7	2.5	2.0	78	13.1
55/59	.0	.0	.0	.2	.5	.5	.5	.0	10	1.7
TOTAL	0	0	5	32	99	157	196	107	596	100.0
PCT	.0	.0	.8	5.4	16.6	26.3	32.9	18.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.3	.2	.2	.0	.0	.0	.0	.0	.0	.2
2.1	2.6	.5	.4	.3	.2	.1	.3	.0	.0
10.6	12.2	3.4	2.3	3.8	1.8	.6	1.7	.0	.8
4.4	5.9	3.2	6.5	13.1	5.6	.6	1.0	.0	.3
.3	.5	.6	1.8	6.1	3.1	.5	.2	.0	.0
.1	.0	.0	.1	.4	.6	.4	.1	.0	.0
17.7	21.3	8.0	11.2	23.7	11.3	2.1	3.3	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HRUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	81	77	70	63	60	56	70.3	373
06009	81	79	76	70	64	61	58	70.1	474
12015	82	76	73	69	63	60	55	68.7	373
18021	83	78	75	68	61	58	55	68.2	518
TOT	84	79	76	69	63	59	55	69.3	1738

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HRUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	10.9	20.2	21.8	40.3	6.7	75			119
06009	.0	7.1	18.9	32.0	26.0	16.0	77			169
12015	.0	2.3	12.6	23.6	39.1	22.4	81			174
18021	.0	5.7	14.6	25.9	29.1	24.7	79			158
TOT	0	38	101	162	206	113	78			620

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PERIOD: (PRIMARY) 1898-1971
(OVER-ALL) 1856-1971AREA 0008 CAPE HOWE NE
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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	WD FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
11/13	.0	.0	.0	.0	.3	.1	.0	.0	4	.0	.4
9/10	.0	.0	.0	.0	.1	.1	.0	.0	2	.0	.2
7/8	.0	.0	.0	.0	.2	.1	.6	.0	9	.0	1.0
6	.0	.0	.0	.1	.3	.4	.4	.0	12	.0	1.3
5	.0	.0	.0	.2	.5	1.0	.3	.1	20	.1	2.0
4	.0	.0	.0	.1	1.2	1.6	.3	.1	31	.0	3.3
3	.0	.0	.2	.6	1.9	1.7	1.0	.0	51	.1	5.4
2	.0	.0	.5	1.6	4.5	3.6	.3	.0	99	.5	10.1
1	.0	.1	.2	1.1	4.8	2.7	.2	.0	85	.1	9.0
0	.0	.0	.9	3.4	7.2	3.2	.1	.0	138	.3	14.5
-1	.0	.0	.3	3.2	4.5	.8	.0	.0	82	.2	8.6
-2	.0	.1	1.4	5.7	4.9	.6	.1	.0	120	.6	12.2
-3	.0	.1	1.2	4.4	3.1	.0	.0	.0	82	.3	8.5
-4	.0	.2	1.3	4.4	1.0	.1	.0	.0	65	.1	6.9
-5	.0	.2	1.3	2.9	1.1	.1	.0	.0	57	.1	6.0
-6	.0	.1	1.2	2.1	.2	.0	.0	.0	36	.2	3.6
-7/-8	.0	.3	1.2	.3	.1	.1	.0	.0	27	.0	2.9
-9/-10	.1	.3	.2	.1	.1	.1	.0	.0	9	.0	1.0
-11/-13	.0	.0	.1	.0	.1	.0	.0	.0	2	.0	.2
TOTAL	1	14	108	283	338	153	32	3	932	2.6	90.6
PCT	.1	1.5	11.6	30.4	36.3	16.4	3.4	.3	100.0	2.8	97.2

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.4	.0	.0	.0	1.5
1-2	.3	1.7	.6	.0	.0	.0	2.6	.4	3.4	.9	.0	.0	.0	4.8
3-4	.0	2.7	3.9	.0	.0	.0	6.6	.0	1.9	6.6	.0	.0	.0	8.6
5-6	.0	.9	2.9	.4	.0	.0	4.2	.0	.9	2.0	.4	.0	.0	3.3
7	.0	.0	.9	.6	.0	.0	1.5	.0	.0	1.6	1.1	.0	.0	2.7
8-9	.0	.0	.5	.5	.0	.0	1.1	.0	.0	.2	.2	.0	.0	.4
10-11	.0	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	5.3	9.5	1.5	.0	.0	16.6	.4	7.4	11.7	1.7	.0	.0	21.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.4	1.1	.0	.0	.0	.0	1.4
1-2	.4	3.7	.3	.0	.0	.0	4.3	.0	.9	1.9	.0	.0	.0	2.7
3-4	.0	1.7	.0	.0	.0	.0	1.7	.0	1.1	1.2	.0	.0	.0	2.3
5-6	.0	.0	.3	.0	.0	.0	.3	.0	1.1	.4	.1	.0	.0	1.5
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.8	.0	.0	.0	.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.7	.0	.0	1.1
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	6.4	.8	.0	.0	.0	7.5	.4	4.1	4.7	.8	.0	.0	9.9

PERIOD: (OVER-ALL) 1963-1971

FEBRUARY
TABLE 18 (CONT)AREA 0008 CAPE HOWE NE
36.0S 150.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	SW	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.7	.4	.3	.0	.0	.0	1.3	.4	.4	.4	.0	.0	.0	.0	1.1
1-2	.0	3.9	2.0	.0	.0	.0	5.9	.4	.3	.7	.0	.0	.0	.0	1.6
3-4	.0	4.1	5.0	.0	.0	.0	9.1	.4	1.2	2.2	.0	.0	.0	.0	3.8
5-6	.0	.7	1.1	.9	.0	.0	2.7	.0	.4	2.5	1.5	.0	.0	.0	4.3
7	.0	.0	1.9	1.3	.0	.0	3.2	.0	.0	.7	.4	.0	.0	.0	1.1
8-9	.0	.0	1.2	.4	.0	.0	1.6	.0	.0	.1	.0	.0	.0	.0	.1
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.4	.7	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.7	9.0	11.5	3.5	1.4	.0	26.1	1.1	2.5	6.6	2.0	.4	.0	12.5	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	NW	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.4	.0	1.1	.0	.0	.0	.0	.7	
1-2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1	
3-4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
5-6	.0	.0	.4	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.4	
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	.0	.6	.4	.0	.0	1.0	1.4	1.9	.0	.0	.0	.0	.0	3.4	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.8	4.1	1.4	.0	.0	.0	10.3	
1-2	1.7	14.8	6.2	.0	.0	.0	22.8	
3-4	.3	12.4	19.7	.0	.0	.0	32.4	
5-6	.0	3.8	9.3	3.1	.0	.0	16.2	
7	.0	.0	6.6	3.4	.0	.0	10.0	
8-9	.0	.0	2.1	1.4	.0	.0	3.4	
10-11	.0	.0	1.0	.0	.0	.0	2.1	
12	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.3	.0	.0	1.0	.0	1.4	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.3	.7	.0	1.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	6.9	35.5	46.2	9.7	1.7	.0	100.0	290

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	9.0	11.5	7.7	3.8	1.4	1.1	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	130	4
6-7	.0	.3	6.3	11.2	7.1	3.8	1.1	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	113	6
8-9	.0	.3	.8	3.6	4.7	2.7	2.2	.8	.8	.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	63	8
10-11	.0	.0	1.6	1.4	2.5	1.6	.8	.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	7
12-13	.0	.0	.5	.3	.5	.5	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8	7
>13	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	8
INDEX	.8	.8	.8	.8	.5	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16	4
TOTAL	7	38	79	91	70	37	21	8	9	1	1	3	0	0	0	0	0	0	0	365	6
PCT	1.9	10.4	21.6	24.9	19.2	10.1	5.8	2.2	2.5	.3	.3	.8	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1857-1973

MARCH

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.8	.8	.2	.0	.0	.0	.0	2.7	.4	2.7	4.7	.0	7.5	.0	82.1
NE	3.7	3.0	.9	.0	.0	.0	.0	7.5	.0	2.2	4.4	.0	2.3	.0	83.7
E	3.2	2.8	1.4	.0	.0	.0	.0	6.9	.7	.5	3.7	.0	.0	.0	88.7
SE	3.1	3.9	.4	.0	.0	.0	.0	7.4	.9	.7	.7	.0	.0	.0	90.2
S	7.1	5.9	1.1	.0	.0	.0	.0	13.4	1.9	2.5	.3	.0	.6	.0	82.2
SW	6.1	3.7	2.2	.0	.0	.0	.0	12.0	.5	3.4	.2	.0	.2	.0	84.3
W	6.6	5.0	3.3	.0	.0	.0	.0	13.2	3.3	.8	.0	.0	.0	.0	83.5
NW	.8	.0	.0	.0	.0	.0	.0	.8	.0	7.5	2.4	.0	.0	.0	90.1
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	.0	92.9
TOT PCT	4.2	3.3	1.0	.0	.0	.0	.0	8.2	.9	2.6	2.3	.0	2.1	.0	84.7
TOT OBS:	1285														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.9	2.6	.9	.0	.0	.0	.0	6.5	1.7	.0	2.2	.0	3.5	.0	86.1
06009	4.9	2.8	1.3	.0	.0	.0	.0	8.4	.8	1.8	1.5	.0	2.6	.0	85.9
12015	2.4	3.9	1.2	.0	.0	.0	.0	7.5	.6	3.3	2.1	.0	2.7	.0	84.4
18021	4.9	4.2	.8	.0	.0	.0	.0	9.9	.5	4.2	3.4	.0	.5	.0	82.3
TOT PCT	4.1	3.4	1.0	.0	.0	.0	.0	8.3	.8	2.5	2.3	.0	2.2	.0	84.6
TOT OBS:	1340														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	7.2	7.9	1.5	.5	.0		17.9	13.2		23.2	19.5	15.8	16.8	19.4	16.8	16.7	18.6
NE	1.2	7.0	6.4	1.4	.2	*		16.2	11.9		8.0	16.3	21.7	21.6	17.7	18.0	11.5	10.7
E	1.0	5.4	2.0	.6	*	*		9.0	9.9		6.0	9.0	10.2	12.1	5.5	11.0	8.1	7.5
SE	.9	5.2	3.9	1.0	.2	.0		11.2	11.6		4.4	9.7	11.9	17.0	13.5	12.0	9.4	9.5
S	.6	6.6	9.8	3.6	.7	.2		21.4	15.6		25.9	17.2	23.6	20.5	25.9	19.0	21.2	22.6
SW	.3	3.9	4.4	3.1	.6	.1		12.4	16.8		17.9	16.4	9.7	6.3	11.6	8.6	15.2	14.2
W	.4	1.8	1.5	.9	.2	.1		4.9	14.6		6.6	3.3	3.6	2.8	2.6	3.8	6.8	7.3
NW	.5	3.0	1.6	.4	.1	.0		5.6	10.5		5.3	5.9	2.7	3.0	2.2	6.8	9.0	8.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.5	.0		2.7	.6	.9	.0	1.6	4.0	2.0	.9
TOT OBS	144	811	739	250	51	9	2024		13.2		113	338	329	232	191	250	351	220
TOT PCT	7.1	40.1	37.5	12.4	2.5	.4		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	2.9	10.1	3.9	.9	.2		17.9	13.2	20.5	16.2	17.9	17.5
NE	4.0	8.5	3.2	.5	*		16.2	11.9	14.2	21.6	17.9	11.2
E	3.2	4.5	1.0	.1	*		9.0	9.9	8.3	11.0	8.6	7.9
SE	3.0	5.8	2.0	.3	.1		11.2	11.6	8.4	14.0	12.6	9.5
S	2.6	10.0	6.9	1.6	.4		21.4	15.6	19.3	22.3	22.0	21.8
SW	1.7	4.6	4.1	1.8	.2		12.4	16.8	16.8	8.3	9.9	14.8
W	1.1	1.9	1.2	.5	.1		4.9	14.6	3.7	3.3	3.3	7.0
NW	1.8	3.0	.6	.2	*		5.6	10.5	5.8	2.8	4.8	8.9
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	1.5						1.5	.0	1.1	.5	2.9	1.6
TOT OBS	442	978	463	120	21	2024		13.2	451	561	441	571
TOT PCT	21.8	48.3	22.9	5.9	1.0		100.0		100.0	100.0	100.0	100.0

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PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

MOOR	CALM	1-3	4-10	WIND 11-21	SPEED (KNOTS) 22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00603	1.1	6.9	38.4	33.0	14.9	3.1	.7	13.8	100.0	431
06069	.5	5.5	38.9	40.5	14.6	1.6	.4	13.7	100.0	361
12615	2.9	5.2	40.4	38.3	9.8	2.9	.5	12.7	100.0	441
18621	1.6	5.1	44.3	35.9	10.2	2.6	.4	12.6	100.0	371
TOT	30	114	811	759	250	91	9	13.2		2024
PCT	1.5	5.6	40.1	37.5	12.4	2.5	.4		100.0	

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRPCTION

WNO DIR	0-2	3-4	5-7	8 & OBSO	TOTAL OBS	MEAN CLOUD COVER
N	11.1	2.7	3.9	1.9		2.8
N E	6.5	2.3	3.1	2.2		3.5
E	2.5	1.4	2.2	1.9		4.5
S E	3.6	.6	2.8	2.8		4.5
S	5.6	2.3	7.8	7.9		5.3
S W	3.9	3.5	3.9	3.1		4.5
W	.4	.9	1.8	.0		5.5
N W	3.0	.9	.6	.5		2.4
VAR	.0	.0	.0	.0		.0
CALM	.9	.4	.4	.0		2.2
TOT OBS	207	83	146	118	554	4.1
TOT PCT	37.4	15.0	26.4	21.3	100.0	

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM $\geq 4/8$)
AND OCCURRENCE OF NM $< 5/8$ BY WIND DIRECTION

BY MONTHLY INCOME											TOTAL	
000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8		
149	299	599	999	1999	3499	4999	6499	7999		ANY MGT	DBS	
.2	.0	.0	.9	1.7	.2	.8	.0	.1	.0	19.7		
.0	.0	*	4	1.6	.9	*	.0	*	.0	11.0		
.0	.0	.4	.8	1.4	.9	.2	.2	.0	.0	4.1		
*	.0	.1	.6	1.3	1.4	.1	.2	.0	.0	9.9		
.3	.0	4	2.6	4.4	3.3	1.4	.7	.0	.3	10.2		
.0	.0	.3	1.6	1.9	1.3	.9	.2	.2	*	8.2		
.0	.0	.0	.5	.7	.3	.2	.2	.0	.0	2.0		
.0	.0	.0	.4	.0	.2	*	.0	.0	.2	4.2		
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
.3	.0	.0	.0	.2	.0	.0	.0	.0	.0	1.4		
.3	.0	.7	.43	.74	.67	.20	.9	.1	.3	347	554	
.5	.0	1.3	7.8	13.4	8.5	3.6	1.6	.2	.5	62.6	100.0	

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSOBY (NM)

CEILING (FEET)	VSBY (NM)							
	• OR • >10	• OR • >5	• OR • >2	• OR • >1	• OR • >1/2	• OR • >1/4	• OR • >50YD	• OR • >0
• OR >6500	.7	.7	.7	.7	.7	.7	.7	.7
• OR >9000	2.0	2.3	2.3	2.3	2.3	2.3	2.3	2.3
• OR >3500	5.5	5.9	5.9	5.9	5.9	5.9	5.9	5.9
• OR >2000	11.8	14.3	14.6	14.6	14.6	14.6	14.6	14.6
• OR >1000	21.8	26.8	27.9	27.9	27.9	27.9	27.9	27.9
• OR >600	27.5	34.3	35.7	35.7	35.7	35.7	35.7	35.7
• OR >300	28.4	35.5	37.0	37.0	37.0	37.0	37.0	37.0
• OR >150	28.4	35.5	37.0	37.0	37.0	37.0	37.0	37.0
• OR > 0	28.6	36.1	37.5	37.5	37.5	37.5	37.5	37.5
TOTAL	160	202	210	210	210	210	210	210

PCT FREQ NH <5/81 62.5

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.1	15.8	13.2	10.0	6.4	6.9	6.6	8.3	15.4	.3	638

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1857-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	TOT %	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.3	
1/2<1	PCP	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	NO PCP	.7	.5	.2	.1	.0	.0	.0	.1	.0	.0	1.6	
	TOT %	.8	.7	.2	.1	.0	.0	.0	.1	.0	.0	1.9	
1<2	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	.4	.0	.1	.0	.0	.0	.0	.0	.0	.1	.5	
	TOT %	.4	.0	.1	.0	.0	.1	.0	.0	.0	.1	.6	
2<5	PCP	.1	.0	.0	.1	.6	.3	.1	.0	.0	.0	1.1	
	NO PCP	.3	.3	.1	.2	.3	.0	.0	.0	.0	.0	1.2	
	TOT %	.4	.3	.1	.3	.9	.3	.1	.0	.0	.0	2.3	
5<10	PCP	.3	.9	.4	.5	1.7	.8	.3	.0	.0	.0	4.7	
	NO PCP	8.1	7.6	3.6	4.0	7.4	3.7	1.3	2.0	.0	.2	37.8	
	TOT %	8.4	8.4	3.9	4.5	9.1	4.6	1.5	2.0	.0	.2	42.6	
10+	PCP	.1	.3	.2	.2	.6	.3	.3	.0	.0	.0	1.9	
	NO PCP	9.6	6.9	3.9	5.5	11.1	7.0	2.8	2.7	.0	.9	50.5	
	TOT %	9.7	7.2	4.1	5.7	11.6	7.3	3.1	2.7	.0	.9	52.4	
TOT OBS													1285
TOT PCT		19.8	16.6	8.5	10.6	21.6	12.2	4.7	4.9	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.2	.0	.0	.0	.1	.0	.0	.0	.0	.0	.3	
1/2<1	0-3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.2	
	4-10	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	.5	
	11-21	.2	.3	.0	.1	.0	.0	.0	.0	.0	.0	.6	
	22+	.1	.1	.0	.0	.1	.0	.0	.1	.0	.0	.3	
	TOT %	.7	.6	.2	.1	.1	.0	.0	.1	.0	.0	1.7	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.3	
	22+	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	
	TOT %	.4	.0	.0	.0	.1	.1	.0	.0	.0	.1	.6	
2<5	0-3	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.1	
	4-10	.2	.0	.1	.1	.2	.3	.0	.0	.0	.0	.8	
	11-21	.2	.3	.2	.1	.3	.1	.0	.0	.0	.0	1.1	
	22+	.0	.0	.0	.2	.4	.0	.1	.1	.0	.0	.8	
	TOT %	.4	.3	.3	.4	.9	.4	.1	.1	.0	.0	2.7	
5<10	0-3	.4	.8	.6	.4	.3	.2	.2	.4	.0	.3	3.5	
	4-10	3.0	2.0	1.9	1.8	1.9	1.1	.5	.6	.0	.0	13.0	
	11-21	3.3	4.1	.9	1.3	4.2	1.5	.5	.6	.0	.0	16.3	
	22+	1.0	.7	.1	.6	2.1	1.4	.1	.1	.0	.0	6.1	
	TOT %	7.7	7.6	3.5	4.2	8.5	4.1	1.3	1.8	.0	.3	39.0	
10+	0-3	.4	.4	.4	.5	.4	.2	.2	.2	.0	1.2	3.8	
	4-10	4.2	4.5	2.9	3.1	4.5	2.6	1.0	1.9	.0	.0	24.7	
	11-21	4.3	2.3	.5	2.4	5.3	2.8	1.2	1.0	.0	.0	19.8	
	22+	.8	.6	.5	.4	2.1	1.9	.8	.2	.0	.0	7.2	
	TOT %	9.8	7.8	4.2	6.3	12.3	7.3	3.3	3.3	.0	1.2	55.5	
TOT OBS													1466
TOT PCT		19.1	16.3	8.2	11.0	22.0	11.9	4.7	5.3	.0	1.6	100.0	

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PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1857-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <3/8 BY HOUR

HOURL (GMT)	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <3/8 ANY HGT	TOTAL OBS
00003	.0	.0	.8	7.5	12.5	9.2	3.3	1.7	.0	.8	35.8	64.2	120
06009	.0	.0	1.2	3.1	10.6	6.8	1.9	1.9	.6	.0	26.1	73.9	161
12015	.0	.0	1.1	8.6	13.1	7.0	2.7	1.6	.0	.5	36.6	63.4	186
18021	2.1	.0	1.4	9.8	10.5	9.8	5.6	.7	.0	.7	40.6	59.4	143
TOT	3	0	7	44	75	49	20	9	1	3	211	399	610
PCT	.5	.0	1.1	7.2	12.3	8.0	3.3	1.5	.2	.5	34.6	65.4	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.4	1.2	.4	2.4	36.8	58.9	253
06009	.0	1.6	.4	3.8	44.8	49.3	446
12015	.0	1.9	1.3	1.9	35.2	59.8	378
18021	.7	2.0	.9	2.3	41.9	52.3	444
TOT	4	26	12	40	612	827	1521
PCT	.3	1.7	.8	2.6	40.2	54.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	.9	11.9	27.5	60.6	109
06009	.0	1.4	7.9	23.6	68.6	140
12015	.0	1.1	10.1	28.1	61.8	178
18021	2.3	3.8	15.8	27.8	56.4	133
TOT	3	10	63	150	347	560
PCT	.5	1.8	11.3	26.8	62.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.1	.0	.1	.0	.0	.0	.0	2	.3
80/84	.0	.0	.0	.0	.1	.0	.1	.0	2	.3
75/79	.0	.0	.1	.4	.3	.9	1.5	.1	24	3.2
70/74	.0	.1	.0	.8	4.4	7.0	11.8	5.7	223	29.8
65/69	.0	.1	.5	1.6	7.6	13.6	15.6	5.1	391	44.3
60/64	.0	.0	.3	1.9	5.3	6.8	3.6	1.9	148	19.8
55/59	.0	.0	.0	.3	.4	.8	.8	.1	18	2.4
TOTAL	0	3	7	37	136	218	250	97	748	100.0
PCT	.0	.4	.9	4.9	18.2	29.1	33.4	13.0		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.1	.8	.0	.0	.0	.0	.1	.8	.0	.0
80/84	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0
75/79	.0	.0	.0	.2	.2	.8	.0	.0	.0	.1
70/74	10.1	7.7	2.1	2.6	3.3	1.5	.6	1.4	.0	.3
65/69	5.7	4.7	4.5	4.8	13.6	5.9	2.1	2.2	.0	.8
60/64	.6	.3	.9	1.7	8.7	5.4	1.4	.4	.0	.1
55/59	.0	.1	.0	.0	.3	.9	.9	.1	.0	.0
TOTAL	18.3	13.9	7.5	9.3	26.2	13.7	5.1	4.3	.0	1.6

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	81	77	76	69	61	57	57	69.0	449
06009	88	79	75	69	62	57	55	68.8	566
12015	79	75	73	68	61	59	56	67.7	445
18021	78	75	73	67	60	57	55	66.9	587
TOT	88	77	75	68	61	57	55	68.0	2047

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	8.1	18.4	28.7	34.6	10.3	76	136
06009	.0	10.6	22.6	27.9	28.8	10.1	74	208
12015	.0	3.6	16.8	32.3	32.7	14.5	78	220
18021	.0	3.3	14.3	27.6	38.1	16.7	80	210
TOT	0	48	139	226	259	102	77	774

PERIOD: (PRIMARY) 1906-1973
(OVER-ALL) 1957-1973

MARCH

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36.15 150.7E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	33 36	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	N FOG	NO FOG
14/16	.0	.0	.0	.0	.0	.0	.1	.0	.2	3	.0	.3
11/13	.0	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.1	.0	.0	.1	.0	.0	.0	2	.0	.2
7/8	.0	.0	.0	.1	.5	.3	.3	.0	.0	14	.2	1.0
6	.0	.0	.0	.0	.1	.6	.3	.0	.0	11	.0	1.0
5	.0	.0	.0	.2	1.0	1.2	.4	.0	.0	32	.1	2.7
4	.0	.0	.3	.6	1.0	1.1	.1	.0	.0	36	.0	3.1
3	.0	.0	.3	.5	1.5	1.0	.3	.0	.0	41	.1	3.5
2	.0	.0	.2	1.9	3.5	1.5	.2	.1	.0	84	.6	6.7
1	.0	.0	.2	1.9	4.5	2.3	.0	.0	.0	103	.4	8.5
0	.0	.1	.5	4.4	6.3	1.9	.0	.0	.0	132	.4	12.8
-1	.0	.0	.6	2.3	5.0	.5	.0	.0	.0	97	.2	8.3
-2	.0	.3	2.3	4.5	4.4	.7	.0	.0	.0	140	.2	12.0
-3	.1	.2	1.3	4.4	2.5	.3	.0	.0	.0	101	.1	8.7
-4	.0	.4	3.4	4.8	1.2	.1	.0	.0	.0	114	.0	9.9
-5	.0	.5	2.9	3.7	.6	.0	.0	.0	.0	88	.2	7.5
-6	.0	.5	1.5	1.0	.3	.0	.0	.0	.0	37	.0	3.2
-7/-8	.0	.8	2.3	1.2	.2	.0	.0	.0	.0	51	.0	4.4
-9/-10	.0	.9	1.4	.5	.1	.1	.0	.0	.0	34	.0	3.0
-11/-13	.0	.2	.4	.1	.0	.0	.0	.0	.0	8	.0	.7
TOTAL	1		202		374		18		3	1149	2.8	1121
PCT	.1	.44	17.6	32.1	32.6	11.9	1.6	.1	.3	100.0	2.4	97.6

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.5	.9	.0	.0	.0	.0	1.4	.1	.9	.0	.0	.0	.0	1.1
1-2	.0	4.9	.3	.0	.0	.0	5.2	.0	4.7	.5	.0	.0	.0	5.2
3-4	.0	2.5	8.0	.5	.0	.0	11.0	.0	1.5	2.9	.6	.0	.0	4.9
5-6	.0	.3	2.1	.4	.0	.0	2.7	.0	.0	1.3	.4	.0	.0	1.7
7	.0	.0	.7	.0	.0	.0	.7	.0	.0	.1	.3	.0	.0	.3
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.5	8.6	11.1	1.1	.0	.0	21.3	.1	7.0	5.1	1.3	.0	.0	13.5

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.3	.0	.0	.0	.0	.5	.1	.3	.0	.0	.0	.0	.3
1-2	.0	2.3	.4	.0	.0	.0	2.7	.0	2.6	.1	.0	.0	.0	2.7
3-4	.0	1.5	.4	.0	.0	.0	1.9	.3	1.5	1.8	.1	.0	.0	3.6
5-6	.0	.0	.5	.0	.0	.0	.5	.0	.3	.9	.1	.0	.0	1.3
7	.0	.0	.0	.5	.0	.0	.5	.1	.0	.3	.1	.0	.0	.5
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	4.1	1.3	.5	.0	.0	6.1	.4	4.6	3.1	.5	.1	.0	8.6

PERIOD: (OVER-ALL) 1963-1973

MARCH

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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.2	.6	.0	.0	.0	.0	.8	.0	.5	.0	.0	.0	.0	.5
1-2	.0	2.5	1.5	.0	.0	.0	4.0	.0	2.2	.1	.0	.0	.0	2.3
3-4	.0	1.5	3.2	.6	.0	.0	5.3	.0	1.1	2.7	.1	.0	.0	3.9
5-6	.0	.7	4.1	1.4	.2	.0	6.4	.0	.1	2.2	1.2	.1	.0	3.5
7	.2	.0	.8	2.5	.3	.0	3.8	.0	.0	.8	.3	.0	.0	1.9
8-9	.0	.0	.7	.5	.3	.0	1.6	.0	.0	.1	.1	.0	.0	.3
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	1.6	.3	.0	1.9
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.4	.3	.0	.9	.0	.0	.0	.0	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.7	.8	1.5	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	5.4	10.2	5.7	1.9	1.1	24.5	.0	3.8	6.0	4.5	.7	.0	15.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.3	.0	.0	.0	.0	.5	.3	.5	.3	.0	.0	.0	.1	1.1
1-2	.0	.2	.0	.0	.0	.0	.2	.3	2.1	.0	.0	.0	.0	.0	2.4
3-4	.0	.3	.9	.0	.0	.0	1.1	.0	.4	1.1	.0	.0	.0	.0	1.5
5-6	.0	.0	.7	.4	.0	.0	1.1	.0	.0	.1	.0	.0	.0	.0	.1
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.1	.0	.0	.0	.0	.1
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	.7	1.7	1.3	.0	.0	4.0	.5	3.1	1.5	.1	.0	.0	5.2	98.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.7	4.2	.3	.0	.0	.0	8.2	
1-2	.8	21.4	2.9	.0	.0	.0	23.1	
3-4	.3	10.0	20.8	1.8	.0	.0	33.0	
5-6	.0	1.3	11.6	4.0	.3	.0	17.2	
7	.3	.0	2.9	4.2	.5	.0	7.9	
8-9	.0	.0	1.1	1.3	.5	.0	2.9	
10-11	.0	.0	.0	2.1	.3	.0	2.4	
12	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	1.1	.3	.3	1.6	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.8	.8	1.6	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.0	36.9	39.6	14.8	2.6	1.1	100.0	379

PERIOD: (OVER-ALL) 1949-1973

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.8	10.3	14.4	7.3	2.9	1.1	.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	195	4
6-7	.0	.8	6.9	13.6	6.1	2.9	.8	1.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	169	6
8-9	.0	.4	2.1	4.2	4.4	1.9	1.1	1.0	1.0	.0	.0	.2	1.3	.0	.0	.0	.0	.0	.0	91	9
10-11	.0	.0	.6	1.1	1.3	1.5	.6	.8	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	33	8
12-13	.0	.0	.0	.2	.4	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	8
>13	.0	.0	.0	.0	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4	8
INDET	1.0	.4	.6	1.0	.8	.4	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	24	5
TOTAL	9	62	128	144	83	43	19	16	10	0	0	1	7	0	0	0	0	0	0	522	6
PCT	1.7	11.9	24.5	27.6	15.9	8.2	3.6	3.1	1.9	.0	.0	.2	1.3	.0	.0	.0	.0	.0	.0	100.0	

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.6	3.0	.5	.0	.0	.0	.0	5.1	.9	3.8	1.1	.0	1.1	.0	89.0
NE	3.1	1.5	3.1	.0	.0	.0	.0	7.7	.0	1.5	.0	.0	.0	.0	90.8
E	6.1	3.8	1.5	.0	.0	.0	.0	11.4	1.5	.8	.0	.0	.0	.0	86.4
SE	6.3	9.2	2.7	.0	.0	.0	.0	18.3	2.5	1.7	1.7	.0	.0	.0	75.8
S	5.1	6.5	1.4	.0	.0	.0	.0	12.9	3.0	1.6	.9	.0	.5	.0	81.5
SW	3.3	12.3	1.5	.0	.0	.0	.0	17.1	.8	1.6	.0	.0	.5	.0	80.7
W	8.4	4.5	1.0	.0	.0	.0	.0	13.9	.0	4.0	2.0	.0	.0	.0	81.7
NW	5.2	1.9	.0	.0	.0	.0	.0	7.1	.3	5.8	.0	.0	.0	.0	89.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	7.1	.0	.0	.0	.0	.0	.0	7.1	.0	7.1	.0	.0	.0	.0	85.7
TOT PCT	4.5	5.9	1.4	.0	.0	.0	.0	11.9	1.3	2.5	.8	.0	.4	.0	83.9
TOT OBS:	1059														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00009	3.1	6.6	1.3	.0	.0	.0	.0	11.0	.4	.0	.9	.0	.4	.0	87.3
06009	3.7	6.2	1.9	.0	.0	.0	.0	11.7	.9	1.5	.9	.0	.6	.0	84.3
12019	6.3	4.2	.8	.0	.0	.0	.0	11.3	2.9	4.6	.0	.0	.4	.0	82.1
18021	4.7	6.7	1.3	.0	.0	.0	.0	12.8	1.3	3.7	1.7	.0	.0	.0	82.2
TOT PCT	4.4	6.0	1.4	.0	.0	.0	.0	11.7	1.4	2.5	.9	.0	.4	.0	83.9
TOT OBS:	1090														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.4	6.9	7.0	.8	.4	*		16.5	11.8		11.7	18.8	14.6	17.4	24.8	18.9	14.1	12.9
NE	.7	6.0	2.6	.6	*	.0		9.9	10.1		9.5	8.6	15.2	13.0	12.3	7.8	7.4	5.1
E	.7	4.2	1.6	.4	.4	*		7.3	11.2		3.5	9.0	10.6	8.8	6.9	5.4	6.3	4.7
SE	.4	5.1	3.7	.9	.2	.1		10.4	12.8		6.9	8.4	13.3	13.2	7.3	10.9	9.8	11.0
S	1.0	7.0	8.4	2.8	.7	.1		20.0	14.1		24.6	22.1	20.2	17.4	22.1	21.5	16.2	19.0
SW	.5	5.3	5.4	3.6	1.1	.3		16.3	17.1		22.3	12.8	14.3	13.5	14.2	13.7	21.4	20.2
W	1.0	3.4	3.5	1.3	.3	.2		9.7	14.0		10.0	8.6	7.4	6.2	4.2	12.7	13.4	14.3
NW	.7	3.7	2.7	.6	.0	*		7.8	11.0		9.7	10.6	4.4	6.5	5.8	6.5	8.5	10.8
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.0							2.0	.0		1.8	1.1	.0	3.9	2.3	2.6	2.9	2.3
TOT OBS	137	676	567	179	51	13	1623		12.9		113	268	263	205	130	193	279	172
TOT PCT	8.4	41.7	34.9	11.0	3.1	.8		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+						00	06	12	18	21
N	4.2	8.5	3.4	.3	.2			16.5	11.8		16.7	15.9	21.3	13.6	
NE	3.3	5.2	.9	.4	.0			9.9	10.1		8.9	14.3	9.6	6.5	
E	3.2	2.7	.9	.3	.2			7.3	11.2		7.3	9.8	6.0	5.7	
SE	2.3	5.4	2.1	.6	.2			10.4	12.8		7.9	13.2	9.4	10.3	
S	4.2	8.9	5.1	1.6	.2			20.0	14.1		22.8	19.0	21.7	17.3	
SW	2.2	6.6	4.9	2.2	.4			16.3	17.1		15.6	13.9	13.9	21.0	
W	2.7	3.8	2.2	.6	.4			9.7	14.0		9.0	6.9	9.3	13.6	
NW	2.2	4.0	1.3	.2	*			7.8	11.0		10.4	5.3	6.2	9.4	
VAR	.0	.0	.0	.0	.0			.0	.0		.0	.0	.0	.0	
CALM	2.0							2.0	.0		1.3	1.7	2.5	2.7	
TOT OBS	427	732	337	101	26	1623			12.9		381	468	323	451	
TOT PCT	26.3	45.1	20.8	6.2	1.6			100.0			100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.3	9.7	38.3	35.4	11.3	2.4	1.6	12.8	100.0	381
00009	1.7	5.3	40.6	37.0	10.5	4.3	.6	13.5	100.0	468
12015	2.5	4.3	41.8	37.2	11.8	2.2	.3	12.9	100.0	323
18021	2.7	6.2	45.5	30.8	10.9	3.3	.7	12.5	100.0	451
TOT	33	104	676	567	179	41	13	12.9		1623
PCT	2.0	6.4	41.7	34.9	11.0	3.1	.8		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	11.1	3.5	2.1	.4		2.1
NE	6.3	2.8	1.6	1.3		2.9
E	1.0	.2	1.8	2.8		6.2
SE	1.6	1.2	3.6	2.0		5.3
S	7.3	3.2	6.7	4.5		4.3
SW	5.9	3.5	7.1	3.0		4.5
W	3.8	1.1	1.3	.9		3.3
NW	4.2	.3	1.7	.5		2.8
VAR	.0	.0	.0	.0		.0
CALM	1.0	.2	.2	.2		2.8
TOT OBS	174	66	108	65	413	3.8
TOT PCT	42.1	16.0	26.2	15.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.0	.2	.0	.7	.2	.0	.0	.2	19.7	
.0	.0	.0	.1	1.0	.5	.0	.0	.0	.0	10.5	
.0	.0	.2	1.3	1.3	.2	.0	.0	.0	.0	2.7	
.0	.0	.0	1.9	1.9	.7	.5	.2	.0	.0	3.2	
.0	.0	.2	2.1	5.5	.6	.1	.0	.0	.0	13.2	
.2	.0	.1	.9	3.9	1.6	.8	.2	.0	.0	11.6	
.2	.0	.0	.8	.4	.2	.0	.0	.0	.0	5.3	
.0	.0	.0	.1	.2	.5	.0	.0	.0	.5	5.5	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.0	.2	.2	.0	.0	.0	1.2	
.2	.0	.2	.30	.59	.22	.8	.2	.0	.3	28.5	413
.5	.0	.5	7.3	14.3	5.3	1.9	.5	.0	.7	69.0	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>5000	.7	.7	.7	.7	.7	.7	.7	.7
>5000	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
>3500	2.4	2.6	3.1	3.1	3.1	3.1	3.1	3.1
>2000	6.4	7.1	7.6	8.1	8.1	8.1	8.1	8.1
>1000	18.2	21.8	22.3	22.7	22.7	22.7	22.7	22.7
>600	22.5	27.3	28.4	29.6	30.1	30.1	30.1	30.1
>300	22.5	27.7	28.9	30.1	30.6	30.6	30.6	30.6
>150	22.5	27.7	28.9	30.1	30.6	30.6	30.6	30.6
>0	22.5	27.7	28.9	30.6	31.0	31.0	31.0	31.0
TOTAL	95	117	122	129	131	131	131	131

TOTAL NUMBER OF OBS: 422

PCT FREQ NH <5/8: 69.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL
										OBS
18.7	16.0	16.6	10.1	7.3	5.5	7.7	7.9	9.9	.4	507

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.0	.0	*	.1	.1	*	.0	.0	.0	.0	.4	.3
	NO PCP	.2	.0	.0	.0	.0	.0	.1	.0	.0	.0	.7	.7
	TOT %	.2	.0	*	.1	.1	*	.1	.0	.0	.0	.7	.7
1<2	PCP	.0	.0	*	*	.1	.3	.3	.0	.0	.0	.8	.4
	NO PCP	.0	.0	.0	.0	.3	.1	.0	.0	.0	.0	.4	.4
	TOT %	.0	.0	*	*	.4	.4	.3	.0	.0	.0	1.1	1.1
2<5	PCP	.0	.0	.1	.1	.2	*	.1	.0	.0	.1	.6	.6
	NO PCP	.2	.3	.1	.2	.3	.4	.1	.1	.0	.0	1.7	1.7
	TOT %	.2	.3	.2	.3	.4	.4	.2	.1	.0	.1	2.3	2.3
5<10	PCP	.7	.7	.4	1.6	1.6	2.1	.8	.5	.0	.0	8.5	8.5
	NO PCP	4.8	2.3	2.1	3.9	6.8	4.9	3.7	1.7	.0	.3	30.6	30.6
	TOT %	5.5	3.0	2.6	5.5	8.5	7.0	4.6	2.3	.0	.3	39.1	39.1
10+	PCP	.2	.0	.1	.2	.6	.5	.1	.0	.0	.0	1.7	1.7
	NO PCP	11.4	5.9	3.3	5.0	10.4	8.9	4.3	4.9	.0	.9	55.1	55.1
	TOT %	11.6	5.9	3.4	5.2	11.0	9.4	4.4	4.9	.0	.9	56.8	56.8
1059													
TOT OBS													
TOT PCT		17.4	9.2	6.2	11.2	20.4	17.3	9.5	7.3	.0	1.3	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.0	.0	.0	.0	.0	.1	.0	.0	.0	.2	.2
	11-21	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	*	.1	.1	*	.0	.0	.0	.0	.3	.3
	TOT %	.2	.0	*	.1	.1	*	.1	.0	.0	.0	.6	.6
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	*	*	.0	.1	.1	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.2	.5	.4	.2	.0	.0	.0	1.2	1.2
	TOT %	.0	.0	*	.2	.5	.4	.2	.0	.0	.0	1.4	1.4
2<5	0-3	*	*	.0	.0	.0	.0	.0	.0	.0	.1	.2	.2
	4-10	*	.1	.0	.1	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.1	.1	.2	.1	.1	.1	.1	.1	.0	.0	.8	.8
	22+	*	*	.1	.1	.3	.2	.1	.1	.0	.1	.9	.9
	TOT %	.2	.3	.2	.3	.4	.4	.2	.1	.0	.1	2.2	2.2
5<10	0-3	.3	.2	.1	.3	.4	.1	.5	.4	.0	.2	2.5	2.5
	4-10	1.7	1.6	1.4	2.1	2.6	2.0	1.1	.9	.0	.0	13.5	13.5
	11-21	2.0	.4	.2	1.7	3.2	1.6	1.5	.6	.0	.0	11.2	11.2
	22+	.9	.5	.6	.7	1.5	2.6	1.0	.1	.0	.0	7.8	7.8
	TOT %	4.9	2.7	2.3	4.9	7.7	6.3	4.1	2.0	.0	.2	35.0	35.0
10+	0-3	1.1	.4	.3	.1	.5	.4	.5	.3	.0	1.6	5.2	5.2
	4-10	5.1	4.2	2.8	3.5	4.2	3.2	1.7	2.5	.0	.0	27.3	27.3
	11-21	5.1	1.9	.6	1.5	5.3	4.1	2.0	1.8	.0	.0	22.4	22.4
	22+	.3	.2	.2	.4	1.4	2.5	.5	.4	.0	.0	5.9	5.9
	TOT %	11.7	6.7	4.0	5.5	11.4	10.2	4.7	5.0	.0	1.6	60.8	60.8
1202													
TOT OBS													
TOT PCT		16.9	9.7	6.6	11.0	20.1	17.3	9.3	7.2	.0	1.9	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.8	.0	.0	5.8	15.7	5.8	1.7	.0	.0	2.5	32.2	67.8	121
06009	.7	.0	.0	6.6	13.2	2.2	2.2	1.5	.0	.0	26.5	73.5	136
12015	.0	.0	1.5	6.1	16.0	6.1	.8	.0	.0	.0	30.5	69.5	131
18021	.0	.0	.0	7.6	4.3	4.3	2.2	.0	.0	.0	18.5	81.5	92
TOT	2	0	2	31	62	22	8	2	0	3	132	348	480
PCT	.4	.0	.4	6.5	12.9	4.6	1.7	.4	.0	.6	27.5	72.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.8	1.7	3.7	28.5	65.3	242
06009	.0	.5	1.1	2.7	38.5	57.2	374
12015	.0	.0	1.4	1.1	29.7	67.8	276
18021	.0	1.5	1.8	1.8	39.9	55.1	341
TOT	0	9	18	28	431	747	1233
PCT	.0	.7	1.5	2.3	35.0	60.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.9	.9	8.3	28.4	63.3	109
06009	.9	1.7	9.5	21.6	69.0	116
12015	.0	1.6	9.8	22.1	68.0	122
18021	.0	1.3	10.7	12.0	77.3	75
TOT	2	6	40	92	290	422
PCT	.5	1.4	9.5	21.8	68.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
75/79	.0	.0	.3	.3	.5	.5	.0	.0	13	2.0
70/74	.0	.0	.0	.9	3.9	4.2	4.2	1.7	96	14.8
65/69	.0	.0	.6	2.3	8.2	13.1	9.7	4.2	247	38.1
60/64	.0	.0	.3	3.1	11.1	9.2	5.4	4.8	220	33.9
55/59	.0	.0	.0	.8	2.5	2.3	3.5	.9	65	10.0
50/54	.0	.0	.0	.0	.2	.6	.2	.2	7	1.1
TOTAL	0	0	8	49	170	194	152	76	649	100.0
PCT	.0	.0	1.2	7.6	26.2	29.9	23.4	11.7		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
85/89	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0
75/79	1.5	.0	.0	.0	.0	.1	.1	.2	.0	.2
70/74	6.0	2.9	.8	.5	.7	.5	1.8	1.4	.0	.2
65/69	7.9	6.1	4.4	3.6	6.0	3.2	2.2	3.4	.0	1.2
60/64	2.4	1.6	2.1	6.3	10.4	7.8	2.1	1.2	.0	.0
55/59	.2	.2	.0	.7	2.9	3.7	2.0	.4	.0	.0
50/54	.0	.0	.0	.0	.2	.8	.1	.0	.0	.0
TOTAL	17.9	10.9	7.4	11.1	20.1	16.1	8.3	6.7	.0	1.5

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	79	77	74	66	57	54	53	65.9	372
06009	85	77	73	65	56	54	52	65.6	464
12015	82	75	71	65	57	53	50	64.9	330
18021	77	73	70	64	57	54	52	63.9	456
TOT	85	76	72	65	57	54	50	65.1	1622

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	13.5	31.8	26.4	19.6	8.8	72	148		
06009	.0	7.1	31.1	32.1	20.4	9.2	74	196		
12015	.0	8.6	20.4	30.2	25.9	14.8	76	162		
18021	.0	6.3	19.4	30.6	28.1	15.6	77	160		
TOT	0	58	172	200	156	80	75	666		

APRIL

PERIOD: (PRIMARY) 1910-1972
(OVER-ALL) 1857-1972

TABLE 17

AREA 0008 CAPE HOWE NE
36.05 150.7EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WD FOG
11/13	.0	.0	.0	.0	.0	.0	.0	.1	1	.0	.1
9/10	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
7/8	.0	.0	.0	.0	.2	.0	.3	.0	5	.0	.5
6	.0	.0	.0	.1	.1	.3	.1	.0	6	.0	.6
5	.0	.0	.0	.0	.2	.3	.0	.2	7	.0	.7
4	.0	.0	.0	.2	.7	.7	.4	.0	20	.0	2.1
3	.0	.0	.0	.1	.5	1.2	.6	.1	25	.0	2.6
2	.0	.0	.0	.5	1.6	3.5	.3	.0	57	.1	5.8
1	.0	.1	.2	.9	2.7	2.5	.3	.0	65	.0	6.8
0	.0	.1	.3	2.0	4.4	3.0	.4	.0	98	.2	10.0
-1	.0	.0	.3	2.6	4.3	3.3	.4	.0	105	.0	10.9
-2	.0	.0	.8	5.0	4.9	1.9	.2	.1	124	.0	12.9
-3	.0	.1	.2	3.5	4.5	.8	.0	.0	88	.1	9.0
-4	.0	.3	.6	4.7	3.3	.4	.0	.0	90	.1	9.3
-5	.0	.1	1.8	3.6	2.3	.1	.0	.0	76	.0	7.9
-6	.0	.3	1.0	2.7	2.0	.1	.0	.0	59	.1	6.0
-7/-8	.1	.4	2.6	3.0	.5	.0	.0	.0	64	.2	6.4
-9/-10	.1	1.1	1.5	1.5	.2	.0	.0	.0	42	.0	4.4
-11/-13	.1	.7	.9	.4	.0	.0	.0	.0	21	.1	2.1
-14/-16	.1	.5	.0	.2	.0	.0	.0	.0	8	.1	.7
TOTAL	4	37	99	311	176	5	962	10	952		
PCT	.4	3.8	10.3	31.1	32.3	18.3	3.2	.5	100.0	1.0	99.0

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N							PCT	NE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.6	1.9	.0	.0	.0	.0	2.5	.0	.6	1.6	.0	.0	.0	.0	1.6	.0
1-2	.3	3.7	1.9	.0	.0	.0	6.0	.0	.6	4.8	.3	.0	.0	.0	5.8	.0
3-4	.0	1.6	2.9	.0	.0	.0	4.4	.0	.0	2.1	.8	.1	.0	.0	3.0	.0
5-6	.0	.3	2.4	.3	.0	.0	3.0	.0	.0	.0	1.9	.0	.0	.0	1.9	.0
7	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.1	.0	.2	.0	.2	.0
10-11	.0	.0	.6	.2	.0	.0	.9	.0	.0	.0	.0	.1	.0	.0	.1	.0
12	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	7.5	9.6	.8	.0	.0	18.9	.6	8.6	3.1	1.1	.2	.0	.0	13.6	

HGT	E							PCT	SE							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.2	.0	.0	.0	.0	.6	.0	.4	.4	.0	.0	.0	.0	.8	.0
1-2	.0	1.4	.0	.0	.0	.0	1.4	.0	.0	1.7	.2	.0	.0	.0	2.0	.0
3-4	.0	.9	.6	.2	.0	.0	1.7	.0	.0	.7	.8	.0	.0	.0	1.5	.0
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.0	.3	1.1	.1	.0	.0	1.5	.0
7	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.4	.0	.0	.0	.4	.0
8-9	.0	.0	.2	.0	.8	.0	1.0	.0	.0	.0	.1	.0	.0	.0	.1	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.5	1.7	.6	.8	.0	5.9	.4	3.2	2.6	.1	.0	.0	.0	6.3	

PERIOD: (OVER-ALL) 1963-1972

APRIL

AREA 0008 CAPE HOWE NE
36.05 150.7E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

								SW										
																34-47	48+	PCT
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	.9	1.2	.0	.0	.0	.0	2.1	.0	1.3	.0	.0	.0	.0	1.3				
1-2	.0	3.3	2.2	.0	.0	.0	5.5	.3	4.6	.7	.0	.0	.0	5.6				
3-4	.0	1.7	2.2	.0	.0	.0	3.9	.0	.9	2.5	.6	.0	.0	4.0				
5-6	.0	.6	4.9	.2	.0	.0	5.7	.0	.2	.8	1.0	.0	.0	2.0				
7	.0	.2	1.0	.9	.0	.0	2.1	.0	.4	.4	1.0	.1	.3	2.2				
8-9	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	1.7	.0	.0	1.7				
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3				
12	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.2	.0	.3	.5				
13-16	.0	.0	.0	.2	.2	.0	.5	.0	.0	.0	.1	.7	.6	1.4				
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4				
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0				
87+	.0	.0	.0	.0	.0	.0	.0	.3	7.4	4.4	4.9	1.2	1.3	19.5				
TOT PCT	.9	6.9	10.3	2.4	.5	.0	21.0											

								NW								TOTAL PCT		
																34-47	48+	PCT
HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT				
<1	.0	.2	.0	.0	.0	.0	.2	.0	1.3	.0	.0	.0	.0	.0	1.3			
1-2	.0	1.5	.0	.0	.0	.0	1.5	.0	1.4	.6	.0	.0	.0	.0	2.1			
3-4	.0	.0	1.7	.0	.0	.0	1.7	.0	1.0	1.1	.0	.0	.0	.0	2.1			
5-6	.0	.6	.6	.2	.0	.0	1.3	.0	.3	.5	.0	.0	.0	.0	.8			
7	.0	.0	.2	.3	.2	.0	.8	.0	.0	.3	.0	.0	.0	.0	.3			
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1			
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0			
TOT PCT	.0	2.3	2.5	.6	.2	.3	6.0	.0	4.1	2.5	.1	.0	.0	6.7	97.8			

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	5.0	8.2	.0	.0	.0	.0	13.2	
1-2	1.3	22.4	6.0	.0	.0	.0	29.7	
3-4	.0	8.8	12.6	.9	.0	.0	22.4	
5-6	.0	2.2	12.6	1.9	.0	.0	16.7	
7	.0	.6	3.2	2.2	.3	.3	6.6	
8-9	.0	.0	1.6	2.2	.9	.0	4.7	
10-11	.0	.0	.6	.6	.0	.0	1.3	
12	.0	.0	.0	.9	.0	.3	1.3	
13-16	.0	.0	.0	1.3	.9	.9	3.2	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.6	.0	.6	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	317
TOT PCT	6.3	42.3	36.6	10.4	2.8	1.6	100.0	

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.2	8.7	6.2	8.2	2.2	1.2	.7	.7	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123	4
6-7	.0	1.2	11.0	10.7	6.7	3.7	1.2	.7	.5	.2	.0	.0	1.0	.0	.0	.0	.0	.0	.0	149	6
8-9	.0	.0	1.7	3.7	4.7	2.2	2.2	.5	1.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	67	7
10-11	.0	.0	.7	1.5	.5	.5	1.7	.2	1.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	27	9
12-13	.0	.0	.7	.0	.5	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	9
>13	.0	.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	23	5
INDEX	1.7	.2	1.2	1.0	.7	.0	.2	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	0	401
TOTAL	12	41	87	101	63	32	27	10	19	2	1	0	6	0	0	0	0	0	0	100.0	6
PCT	3.0	10.2	21.7	25.2	15.7	8.0	6.7	2.5	4.7	.5	.2	.0	1.5	.0	.0	.0	.0	.0	.0		

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1855-1972

MAY

AREA 0008 CAPE HOWE NE
36.15 150.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LYNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.0	3.3	1.6	.0	.0	.0	.0	5.9	.8	3.1	1.2	.0	1.6	.0	87.7
NE	4.7	3.7	2.1	.0	.0	.0	.0	10.3	2.1	1.8	1.0	.0	2.1	.0	82.9
E	8.7	16.4	1.9	.0	.0	.0	.0	27.1	.0	3.9	1.9	.0	.0	.0	70.0
SE	6.6	9.9	1.7	.0	.0	.0	.0	18.2	4.4	3.3	2.2	.0	1.1	.0	72.5
S	5.7	12.4	2.1	.0	.0	.0	.0	20.2	2.3	1.6	1.0	.0	.0	.0	75.5
SW	6.5	8.1	1.0	.0	.0	.0	.0	15.6	2.5	3.2	.6	.0	.0	.0	79.4
W	1.1	5.5	.8	.0	.0	.0	.0	7.2	.5	5.7	.3	.0	.6	.0	85.7
NW	2.3	1.5	1.0	.0	.0	.0	.0	4.8	.0	3.0	1.5	.0	1.0	.0	89.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	4.4	7.3	1.4	.0	.0	.0	.0	13.1	1.7	3.1	1.0	.0	.6	.0	81.2
TOT OBS:	1089														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT 08 TIME	PCPN PAST HOUR	THDR LYNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	5.3	5.8	.4	.0	.0	.0	.0	11.5	1.3	.4	1.8	.0	1.8	.0	83.6
06009	4.4	10.8	2.0	.0	.0	.0	.0	17.2	1.7	1.4	1.4	.0	.7	.0	79.1
12015	3.6	8.9	.7	.0	.0	.0	.0	11.3	2.6	5.1	.7	.0	.4	.0	80.7
18021	4.1	6.8	2.4	.0	.0	.0	.0	13.3	1.2	5.3	1.2	.0	.0	.0	79.9
TOT PCT	4.3	7.7	1.5	.0	.0	.0	.0	13.5	1.7	3.3	1.2	.0	.6	.0	80.6
TOT OBS:	1135														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.2	6.1	3.8	.8	.*	.1		12.0	10.5		15.0	13.5	15.1	11.7	14.9	12.6	8.7	7.0
NE	.8	4.0	3.2	.6	.0	.1		8.7	11.3		9.4	6.0	11.4	13.5	8.3	9.7	7.8	3.8
E	.4	1.9	1.7	.3	.0	.0		4.3	10.6		1.4	5.0	4.6	8.0	4.0	4.8	4.9	2.4
SE	.8	4.0	2.5	.9	.1	.0		8.3	11.4		4.3	5.5	9.9	9.6	12.1	10.1	5.8	11.1
S	.9	5.6	6.1	3.5	.7	.0		16.8	15.2		10.2	19.4	21.3	17.0	14.9	15.7	14.0	19.2
SW	.6	6.9	8.8	5.2	1.3	.3		23.2	17.0		30.5	23.5	21.2	18.3	17.5	19.3	25.9	29.7
W	.5	6.1	5.5	1.7	.6	.1		14.5	14.4		16.2	13.6	8.3	12.4	16.7	12.6	21.3	14.1
NW	.9	4.4	2.7	.6	.3	.0		8.8	11.5		10.0	10.6	4.7	7.0	8.9	11.4	9.1	10.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.2							3.3	.1		3.1	2.9	3.6	4.7	2.6	3.9	2.8	2.7
TOT OBS	158	655	573	229	50	10	1675		13.3		128	241	251	193	151	207	319	185
TOT PCT	9.4	39.1	34.2	13.7	3.0	.6		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	
N	4.0	6.0	1.9	.1	.1		12.0	10.5	14.0	13.6	13.5	8.1	
NE	2.3	4.5	1.6	.1	.1		8.7	11.3	7.2	12.3	9.1	6.3	
E	1.3	2.4	.5	.1	.0		4.3	10.6	3.7	5.2	4.5	4.0	
SE	2.5	4.0	1.5	.3	.1		8.3	11.4	5.1	9.7	11.0	7.6	
S	3.2	6.4	5.5	1.7	.1		16.8	15.2	16.2	19.4	15.4	15.9	
SW	3.1	9.2	7.1	3.1	.6		23.2	17.0	25.9	19.9	18.6	27.3	
W	2.4	6.7	4.4	.7	.4		14.5	14.4	14.5	10.1	14.3	18.7	
NW	2.9	3.9	1.4	.5	.1		8.8	11.5	10.4	5.7	10.3	9.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	3.2						3.3	.1	3.0	4.1	3.4	2.8	
TOT OBS	419	724	400	110	22	1675		13.3	369	444	358	304	
TOT PCT	23.0	43.2	23.9	6.6	1.3		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1855-1972

MAY

AREA 0008 CAPE HOWE NE
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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	3.0	7.6	39.6	29.8	16.5	3.0	.5	13.3	100.0	369
06009	4.1	7.4	37.6	34.5	12.6	3.6	.2	13.0	100.0	444
12015	3.4	4.7	39.7	38.3	10.3	3.1	.6	13.1	100.0	358
18021	2.8	5.2	39.5	34.3	14.9	2.4	1.0	13.6	100.0	504
TOT	55	104	694	573	229	50	10	13.3		1675
PCT	3.3	6.2	39.0	34.2	13.7	3.0	.6	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.1	2.6	4.0	1.6		3.8
NE	3.2	1.7	3.6	1.7		4.2
E	1.4	.7	.8	.7		3.6
SE	1.5	.7	3.1	2.0		5.4
S	4.0	2.4	5.6	3.1		4.7
SW	7.3	4.2	10.2	2.2		4.2
W	7.2	4.2	3.1	1.6		3.1
NW	4.4	1.4	1.7	.6		2.7
VAR	.0	.0	.0	.0		.0
CALM	2.0	.2	.2	.2		1.9
TOT OBS	165	83	146	63	459	3.9
TOT PCT	35.9	18.1	32.2	13.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NM <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.2	.2	.7	1.0	1.5	.0	.0	.0	.0	9.6	
.0	.0	.4	.3	.9	.2	.2	.0	.0	.0	7.2	
.0	.0	.2	.0	.0	.8	.0	.0	.0	.0	2.5	
.0	.0	.0	.9	1.3	.9	.4	.0	.0	.0	3.7	
.0	.0	.2	1.1	3.3	1.2	.9	.1	.2	.0	8.1	
.0	.0	.3	1.8	3.5	2.1	1.0	.3	.0	.3	14.8	
.0	.0	.2	.3	1.3	.5	.2	.0	.2	.4	12.9	
.0	.0	.2	.1	.3	.4	.0	.2	.0	.2	6.6	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.2	.2	.0	.0	.0	.0	.0	2.2	
.0	1	8	23	54	38	13	4	2	4	310	459
.0	.2	1.7	5.4	11.8	8.3	2.8	.9	.4	.9	67.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >4500	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >3000	1.9	2.1	2.1	2.1	2.1	2.1	2.1	2.1
= OR >1500	4.9	5.1	5.1	5.1	5.1	5.1	5.1	5.1
= OR >1000	12.0	12.9	13.1	13.1	13.1	13.1	13.1	13.3
= OR >600	20.5	24.1	24.5	24.7	24.7	24.7	24.7	24.9
= OR >300	24.1	29.3	29.7	30.2	30.2	30.2	30.2	30.4
= OR >150	24.7	30.6	31.4	31.9	31.9	31.9	31.9	32.1
= OR >0	24.9	30.8	31.6	32.1	32.1	32.1	32.1	32.3
TOTAL	118	146	150	152	152	152	152	153

TOTAL NUMBER OF OBS: 474

PCT FREQ NM <5/8: 67.7

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
17.6	19.9	10.8	11.9	7.7	7.7	7.3	7.1	10.1	.0	547

PERIOD: (PRIMARY) 1900-1972
(OVER-ALL) 1855-1972

MAY

AREA 0008 CAPE HOWE NE
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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VISBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
1/2<1	PCP	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	NO PCP	.0	.0	.1	.2	.2	.1	.0	.0	.0	.0	.0	.6
	TOT %	.1	.0	.1	.2	.2	.1	.0	.0	.0	.0	.0	.7
1<2	PCP	.1	.0	.0	.1	.0	.1	.0	.0	.0	.0	.0	.3
	NO PCP	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	.4
	TOT %	.1	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.6
2<5	PCP	.0	.1	.0	.0	.3	.4	.0	.0	.0	.0	.0	.7
	NO PCP	.1	.1	.0	.2	.0	.0	.2	.0	.0	.0	.0	.7
	TOT %	.1	.2	.0	.2	.3	.4	.2	.0	.0	.0	.0	1.5
5<10	PCP	.2	.5	1.1	1.2	2.7	2.7	1.0	.2	.0	.0	.0	9.7
	NO PCP	2.3	2.1	1.2	2.8	5.3	6.7	4.9	2.8	.0	.3	28.3	
	TOT %	2.6	2.6	2.3	4.0	8.0	9.3	5.9	3.0	.0	.3	38.0	
10+	PCP	.3	.3	.2	.2	.6	.6	.0	.2	.0	.0	.0	2.3
	NO PCP	8.0	5.5	2.0	3.5	8.5	13.0	8.9	5.8	.0	1.6	56.7	
	TOT %	8.2	5.9	2.2	3.7	9.1	13.5	8.9	6.0	.0	1.6	59.0	
TOT OBS													1089
TOT PCT		11.2	8.7	4.8	8.3	17.6	23.5	15.0	9.1	.0	1.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VISBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
	TOT %	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1
1/2<1	0-3	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.2
	4-10	.1	.0	.0	.1	.1	.1	.0	.0	.0	.0	.0	.3
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.1	.0	.1	.2	.2	.1	.0	.0	.0	.0	.0	.6
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4
	11-21	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2
	22+	.1	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.2
	TOT %	.3	.1	.1	.1	.0	.1	.0	.0	.0	.0	.0	.7
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.4
	11-21	.1	.1	.0	.0	.1	.1	.1	.0	.0	.0	.0	.6
	22+	.0	.0	.0	.1	.3	.2	.0	.0	.0	.0	.0	.6
	TOT %	.2	.2	.0	.3	.4	.3	.1	.0	.0	.0	.0	1.6
5<10	0-3	.2	.1	.0	.3	.2	.4	.1	.1	.0	.4	1.8	
	4-10	1.1	1.2	.9	1.3	2.3	1.9	2.1	1.1	.0	11.8		
	11-21	1.0	1.1	1.2	1.7	2.7	3.0	1.7	1.1	.0	13.4		
	22+	.2	.2	.1	.6	2.4	3.2	1.4	.5	.0	8.6		
	TOT %	2.4	2.6	2.1	3.9	7.6	8.5	5.3	2.8	.0	35.6		
10+	0-3	.6	.6	.4	.5	.7	.4	.3	.6	.0	2.4	6.3	
	4-10	4.7	2.7	1.0	2.9	3.3	4.2	4.1	3.4	.0	26.4		
	11-21	2.6	2.2	.5	.4	3.6	5.9	3.9	1.8	.0	20.8		
	22+	.4	.5	.2	.3	1.5	3.4	1.0	.3	.0	7.7		
	TOT %	8.2	6.1	2.0	4.1	9.1	13.9	9.3	6.1	.0	2.4	61.3	
TOT OBS													1233
TOT PCT		11.2	9.0	4.4	8.6	17.3	22.9	14.8	9.0	.0	2.8	100.0	

MAY

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1855-1972AREA 0008 CAPE HOWE NE
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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 209	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.0	.8	.8	7.8	10.9	7.8	3.9	1.6	.8	.8	35.2	64.8	128
06009	.0	.0	1.7	5.0	14.2	8.3	5.0	1.7	.0	.8	36.7	63.3	120
12015	.0	.0	2.7	4.1	8.2	7.5	1.4	.0	.7	.7	25.2	74.8	147
18021	.0	.0	.8	3.1	9.3	6.2	.8	.0	.0	.8	20.9	79.1	129
TOT	0	1	8	26	55	39	14	4	2	4	153	371	524
PCT	.0	.2	1.5	5.0	10.5	7.4	2.7	.8	.4	.8	29.2	70.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.4	.8	1.3	30.7	66.8	238
06009	.3	.9	.9	1.8	41.2	55.0	342
12015	.0	1.0	.6	1.6	29.1	67.6	309
18021	.0	.8	.5	1.5	39.2	57.9	390
TOT	1	10	9	20	457	782	1279
PCT	.1	.8	.7	1.6	35.7	61.1	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NH >4/8) BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.0	1.7	11.0	28.0	61.0	118
06009	.9	2.7	10.8	29.7	59.5	111
12015	.0	3.0	9.8	19.7	70.5	132
18021	.0	.9	4.4	19.5	76.1	113
TOT	1	10	43	114	317	474
PCT	.2	2.1	9.1	24.1	66.9	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.2	.0	.0	.0	.0	1	.2
70/74	.0	.0	.0	.5	.8	.9	.3	.0	16	2.5
65/69	.0	.0	.2	1.4	4.2	5.6	6.2	3.4	135	20.9
60/64	.0	.0	.6	4.5	10.2	13.2	10.2	4.5	279	43.3
55/59	.0	.0	.9	4.0	9.1	10.5	6.2	2.6	190	29.5
50/54	.0	.0	.0	.2	.9	1.4	.9	.3	24	3.7
TOTAL	0	0	11	69	137	204	154	70	645	100.0
PCT	.0	.0	1.7	10.7	21.2	31.6	23.9	10.9		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
70/74	1.0	.6	.0	.2	.0	.0	.5	.2	.0	.0
65/69	3.9	5.0	1.3	1.3	1.4	1.5	1.7	1.8	.0	1.1
60/64	5.0	3.3	1.8	4.2	6.5	10.5	7.1	3.8	.0	1.1
55/59	1.8	1.2	1.0	1.7	6.2	10.0	5.2	2.1	.0	.2
50/54	.0	.0	.0	.2	.5	1.6	1.4	.0	.0	.0
TOTAL	13.9	10.0	4.1	7.6	14.7	23.5	15.9	7.9	.0	2.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	78	72	69	62	55	53	52	62.2	360
06009	81	71	68	62	56	54	52	61.8	443
12015	73	70	67	61	55	53	48	61.3	370
18021	73	69	66	60	55	52	49	60.2	507
TOT	81	70	68	61	55	53	48	61.3	1680

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	14.3	25.7	30.0	17.9	12.1	73	140		
06009	.0	16.2	22.8	29.3	22.8	9.0	73	167		
12015	.0	10.7	20.3	34.5	23.7	10.7	75	177		
18021	.0	7.5	16.0	33.7	31.0	11.8	77	187		
TOT	0	80	140	215	163	73	75	671		

PERIOD: (PRIMARY) 1908-1972
(OVER-ALL) 1855-1972

MAY

AREA 0008 CAPE HOWE NE
36.15 190.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 92	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	TOT	W FOG	NO FOG
11/13	.0	.0	.0	.0	.1	.0	.0	.0	.1	2	.0	.2
9/10	.0	.0	.1	.0	.1	.0	.0	.0	.0	2	.0	.2
7/8	.0	.0	.0	.2	.2	.4	.0	.0	.0	8	.0	.8
6	.0	.0	.0	.2	.0	.0	.0	.0	.0	2	.0	.2
5	.0	.0	.1	.2	.3	.0	.0	.0	.0	6	.0	.6
4	.0	.0	.0	.6	.6	.1	.0	.0	.0	13	.0	1.3
3	.0	.1	.1	.1	.3	.1	.1	.0	.0	8	.0	.8
2	.0	.0	.5	1.2	1.0	.4	.0	.0	.0	31	.0	3.1
1	.0	.1	.7	1.6	1.4	.6	.0	.0	.0	44	.0	4.4
0	.0	.2	2.2	3.8	2.6	.4	.0	.0	.0	92	.1	9.1
-1	.0	.4	1.7	4.2	2.5	.8	.0	.0	.0	96	.1	9.5
-2	.1	.5	4.4	5.5	2.3	.0	.0	.0	.0	128	.1	12.7
-3	.1	.5	3.9	2.7	1.4	.2	.0	.0	.0	88	.1	8.7
-4	.1	.4	3.8	6.5	1.8	.0	.0	.0	.0	126	.4	12.2
-5	.0	1.1	5.1	3.4	1.3	.0	.0	.0	.0	109	.4	10.5
-6	.1	.5	3.3	1.7	.5	.0	.0	.0	.0	61	.0	6.1
-7/-8	.0	1.8	4.0	3.1	.6	.0	.0	.0	.0	95	.1	9.4
-9/-10	.1	1.8	2.1	.7	.2	.0	.0	.0	.0	49	.0	4.9
-11/-13	.0	1.9	1.3	.3	.0	.0	.0	.0	.0	35	.0	3.5
-14/-16	.1	.3	.1	.2	.0	.0	.0	.0	.0	7	.0	.7
TOTAL	6	96	334	362	172	30	1	0	1	1002	1.3	98.7
PCT	.6	9.6	33.3	36.1	17.2	3.0	.1	.0	.1	100.0	1.3	98.7

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.0	.2	.0	.0	.0	1.5	.0	1.2	.1	.0	.0	.0	1.3
1-2	.7	6.1	1.1	.0	.0	.0	8.0	.1	2.0	.7	.0	.0	.0	2.7
3-4	.0	1.8	2.8	.0	.0	.0	4.6	.0	1.8	.7	.0	.0	.0	2.5
5-6	.0	.0	1.0	.5	.0	.0	1.5	.0	.3	1.6	.1	.0	.0	1.9
7	.0	.0	.3	.3	.0	.0	.6	.0	.0	.6	.9	.0	.3	1.8
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	8.9	5.4	.8	.0	.0	16.2	.1	5.3	5.6	1.0	.0	.3	10.2

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.4	.6	.0	.0	.0	.0	1.0
1-2	.0	.3	.8	.0	.0	.0	1.1	.3	.9	.0	.0	.0	.0	1.2
3-4	.6	.3	.3	.0	.0	.0	1.2	.0	.6	.3	.0	.0	.0	1.9
5-6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.3	.0	.0	1.0
7	.0	.3	.0	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	1.5	1.1	.0	.0	.0	3.2	.7	2.1	1.3	.3	.0	.0	4.3

PERIOD: (OVER-ALL) 1963-1972

MAY

AREA 0008 CAPE HOWE NE
36.15 150.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	.0	.0	.0	.0	.0		.2	.3	.3	.0	.0	.0	.0		.9
1-2	.3	1.8	1.1	.0	.0	.0		3.3	.0	2.7	.4	.0	.0	.0		3.2
3-4	.0	1.6	2.1	.2	.0	.0		3.9	.0	2.1	2.6	.7	.0	.0		5.4
5-6	.0	.8	1.5	.8	.0	.0		3.1	.0	.7	3.1	1.3	.0	.0		5.1
7	.0	.0	.3	1.0	.3	.0		1.6	.0	.3	3.3	1.9	.0	.0		5.5
8-9	.0	.0	.6	.0	.3	.0		.9	.0	.0	.3	.0	.0	.0		.3
10-11	.0	.0	.0	.2	.3	.0		.5	.0	.0	.0	1.6	.0	.0		1.6
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.9	.0	.0		.9
13-16	.0	.0	.3	.3	.0	.0		.6	.0	.0	.0	.0	.7	.0		.7
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.3	.0		.3
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.5	4.3	5.8	2.6	.9	.0		14.1	.3	6.1	10.0	6.4	1.0	.0		23.7

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.3	2.3	.3	.0	.0	.0		2.9	.3	.2	.0	.0	.0	.0		.5	
1-2	.0	2.7	1.0	.0	.0	.0		3.8	.1	3.2	.1	.0	.0	.0		3.4	
3-4	.0	1.8	2.5	.3	.0	.0		4.7	.0	2.1	1.7	.0	.0	.0		3.8	
5-6	.0	.0	3.2	.2	.0	.0		3.4	.0	.0	1.2	.0	.0	.0		1.2	
7	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.6	.0	.0	.0		.6	.0	.0	.3	.0	.0	.0		.3	
10-11	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.3	.0	.0		.3	
12	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.1	.0	.0		.1	
13-16	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.3	6.9	7.6	1.0	.2	.0		16.1	.4	5.5	3.3	.4	.0	.0		9.3	97.3

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	5.8	6.1	.9	.0	.0	.0	12.8	085
1-2	1.4	19.7	5.2	.0	.0	.0	26.4	
3-4	.6	11.9	12.8	1.2	.0	.0	26.4	
5-6	.0	1.7	11.9	3.2	.0	.0	16.8	
7	.0	.6	4.6	4.1	.3	.3	9.9	
8-9	.0	.0	1.7	.0	.3	.0	2.0	
10-11	.0	.3	.0	2.3	.3	.0	2.9	
12	.0	.0	.0	1.2	.0	.0	1.2	
13-16	.0	.0	.3	.3	.9	.0	1.4	
17-19	.0	.0	.0	.0	.3	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	7.8	40.3	37.4	12.2	2.0	.3	100.0	345

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN
4-6	1.8	10.5	10.0	6.2	3.1	.9	.9	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	151	4
6-7	.0	1.8	5.6	11.4	7.6	1.8	1.3	.9	1.8	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	147	6
8-9	.0	.9	.7	3.3	3.1	2.0	1.1	.7	1.3	.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	64	8
10-11	.0	.0	.9	.2	.9	.7	.4	.7	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	19	8
12-13	.0	.0	.2	.0	.2	.0	.0	.4	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	9	13
>13	.0	.0	.0	.2	.4	.0	.0	.0	.9	.4	.4	.0	.0	.0	.0	.0	.0	.0	.0	11	13
INDET	2.4	1.6	2.7	2.9	.4	.4	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	48	3
TOTAL	19	86	90	109	71	26	18	12	22	9	5	2	0	0	0	0	0	0	0	449	6
PCT	4.2	14.7	20.0	24.3	15.8	5.8	4.0	2.7	4.9	2.0	1.1	.4	.0	.0	.0	.0	.0	.0	.0	100.0	

JUNE

PERIOD: (PRIMARY) 1903-1971
(OVER-ALL) 1853-1971AREA 0008 CAPE HOWE NE
36.05 150.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	3.8	1.6	.0	.0	.0	.0	.0	5.4	.8	1.1	2.1	.0	.8	.0	89.8
NE	6.6	.9	3.5	.0	.0	.0	.0	11.0	5.7	3.5	.9	.0	.4	.0	80.3
E	14.6	4.2	3.1	.0	.0	.0	.0	21.9	1.6	.0	3.1	.0	.0	.0	73.4
SE	10.2	19.8	1.7	.0	.0	.0	.0	31.7	5.9	1.1	.0	.0	.0	.0	62.3
S	10.1	14.7	1.0	.0	.0	.0	.0	25.4	4.5	5.6	1.2	.0	1.0	.0	66.0
SW	4.4	13.2	.6	.0	.0	.0	.0	18.1	4.4	2.8	1.4	.0	.0	.0	74.5
W	3.9	5.3	1.4	.0	.0	.0	.0	10.6	1.4	6.9	1.1	.0	1.1	.0	80.8
NW	2.2	.0	.0	.0	.0	.0	.0	2.2	.9	2.8	.0	.0	1.5	.0	93.6
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	6.0	8.8	1.0	.0	.0	.0	.0	15.7	3.2	3.6	1.1	.0	.7	.0	77.4
TOT OBS:	1069														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.5	10.0	.5	.0	.0	.0	.0	14.0	2.0	.5	.0	.0	2.0	.0	81.5
06009	6.9	9.2	.3	.0	.0	.0	.0	16.4	3.9	2.6	1.0	.0	.3	.0	77.4
12015	6.0	6.7	1.8	.0	.0	.0	.0	14.2	3.2	6.0	1.8	.0	.4	.0	76.2
18021	6.5	9.3	1.2	.0	.0	.0	.0	17.0	2.8	4.3	1.5	.0	.3	.0	76.2
TOT PCT	5.9	8.7	1.0	.0	.0	.0	.0	15.6	3.1	3.6	1.2	.0	.6	.0	77.5
TOT OBS:	1110														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.6	4.3	3.0	.9	.1	.1		8.9	11.7		6.2	10.3	9.9	9.7	10.2	9.2	7.6	7.1
NE	.6	3.5	1.9	.3	.1	.1		6.4	10.7		4.0	7.2	8.4	9.0	5.8	6.0	4.4	5.0
E	.2	1.8	2.3	.5	.2	.0		4.9	13.4		6.9	3.1	5.1	5.9	7.9	4.4	5.8	2.1
SE	.4	3.0	3.2	.8	.6	.1		8.1	15.0		6.7	6.4	9.1	9.2	9.0	7.5	8.3	8.2
S	1.0	4.8	7.0	3.3	1.2	.4		17.8	17.2		17.1	12.6	21.6	19.7	20.1	16.7	16.7	18.9
SW	.6	7.2	7.4	6.5	2.2	.3		24.2	18.3		29.0	27.1	23.5	18.8	21.0	23.3	23.4	24.5
W	1.1	5.5	5.2	2.5	1.4	.1		15.7	15.7		19.6	18.4	7.4	16.0	16.4	15.4	19.3	15.3
NW	1.2	4.7	3.7	1.2	.6	.0		11.4	12.7		17.6	12.8	10.2	6.4	7.6	12.7	11.7	17.9
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.5							2.5	.0		.0	2.1	2.8	3.1	2.1	2.8	2.7	1.1
TOT OBS	135	565	549	261	102	16	1628		15.0		101	242	250	195	142	217	291	190
TOT PCT	8.3	34.7	33.7	16.0	6.3	1.0		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+				00	06	12	18
N	2.3	4.8	1.4	.3	.1		8.9	11.7	9.1	9.8	9.6	7.4
NE	2.0	3.5	.5	.2	.1		6.4	10.7	6.3	8.7	5.9	4.6
E	1.2	2.1	1.3	.2	.1		4.9	13.4	4.2	5.4	5.8	4.4
SE	1.9	3.2	2.0	.6	.4		8.1	15.0	6.5	9.2	8.1	8.3
S	2.8	7.3	4.3	2.1	1.2		17.8	17.2	13.9	20.8	18.0	17.6
SW	2.9	9.5	6.3	4.7	.9		24.2	18.3	27.6	22.6	23.6	23.8
W	3.2	6.4	3.7	1.9	.6		15.7	15.7	18.7	11.2	15.8	17.7
NW	3.4	5.1	1.8	.8	.2		11.4	12.7	12.2	8.5	10.7	14.1
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0
CALM	2.5						2.5	.0	1.5	3.8	2.5	2.1
TOT OBS	362	685	346	177	58	1628		15.0	343	445	359	481
TOT PCT	22.2	42.1	21.3	10.9	3.6		100.0		100.0	100.0	100.0	100.0

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)							PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+	MEAN		
0000	1.5	6.4	33.2	31.2	16.6	9.3	1.7	16.3	100.0	343
0600	3.8	5.6	36.4	31.2	15.5	6.5	.9	14.6	100.0	445
1200	2.5	5.3	34.3	37.0	15.9	4.7	.3	14.5	100.0	359
1800	2.1	5.8	34.5	35.3	16.2	5.0	1.0	14.8	100.0	481
TOT	41	94	563	549	261	102	16	13.0		1628
PCT	2.5	5.8	34.7	33.7	16.0	6.3	1.0	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	3.8	1.8	1.4	1.4		3.5
NE	1.8	1.8	1.1	1.1		3.9
E	.8	1.6	1.6	3.0		5.6
SE	.8	1.1	4.3	3.4		6.1
S	5.1	3.8	7.4	5.3		4.9
SW	6.2	5.8	9.4	1.6		4.1
W	5.8	3.0	3.9	2.0		3.8
NW	5.1	1.0	1.9	.6		2.9
VAR	.0	.0	.0	.0		.0
CALM	.5	.3	.5	.3		4.0
TOT OBS	119	80	126	75	400	4.4
TOT PCT	29.8	20.0	31.5	18.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

BY WIND DIRECTION						BY WIND DIRECTION												
WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	3.8	1.8	1.4	1.4		3.5	.0	.0	.0	.3	1.0	.4	.3	.3	.2	.3	5.9	
NE	1.8	1.8	1.1	1.1		3.9	.1	.0	.0	.3	.8	.4	.0	.0	.1	.0	4.1	
E	1.6	1.6	1.6	3.0		5.6	.2	.0	.0	.8	1.9	.5	.5	.0	.0	.0	3.1	
SE	.8	1.1	4.3	3.4		6.1	.0	.0	.6	1.8	2.9	.4	.8	.0	.0	.0	3.0	
S	5.1	3.8	7.4	5.3		4.9	.0	.0	.6	2.9	4.1	2.3	.4	.0	.0	.0	11.5	
SW	6.2	5.8	9.4	1.6		4.1	.0	.0	.2	1.0	3.1	2.7	1.6	.1	.0	.0	14.3	
W	5.8	3.0	3.9	2.0		3.8	.0	.0	.2	.7	2.1	.9	.0	.1	.0	.3	10.4	
NW	5.1	1.0	1.9	.6		2.9	.0	.0	.0	.0	.7	.6	.0	.3	.0	.3	6.8	
VAR	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.5	.3	.5	.3		4.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	1.3	
TOT OBS	119	80	126	79	400	4.4	1	6	31	67	32	14	3	1	3	242	400	
TOT PCT	29.8	20.0	31.5	18.8	100.0		.3	.0	1.5	7.8	16.8	8.0	3.5	.8	.3	.8	60.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)		VSBY (NM)		VSBY (NM)		VSBY (NM)		OR >0
	OR >10	OR >5	OR >2	OR >1	OR >1/2	OR >1/4	OR >50YD	OR >0	
OR >6500	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
OR >5000	1.5	1.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7
OR >3500	4.6	4.9	5.1	5.4	5.4	5.4	5.4	5.4	5.4
OR >2000	11.2	12.7	13.2	13.4	13.4	13.4	13.4	13.4	13.4
OR >1000	23.0	28.9	29.6	29.8	29.8	29.8	29.8	29.8	29.8
OR >600	25.9	35.2	36.7	37.4	37.4	37.4	37.4	37.4	37.4
OR >300	26.2	36.4	38.1	38.9	38.9	38.9	38.9	38.9	38.9
OR >150	26.2	36.4	38.1	38.9	38.9	38.9	38.9	38.9	38.9
OR >0	26.2	36.7	38.4	39.1	39.1	39.1	39.1	39.1	39.1
TOTAL	107	150	157	160	160	160	160	160	160

TOTAL NUMBER OF OBS: 409

PCT FREQ NH <5/8: 60.9

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
13.8	16.8	11.0	11.0	6.9	8.8	8.4	8.0	15.3	.2	465

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	PCP	.0	.0	.0	*	.1	.1	.0	.0	.0	.0	.3	
	NO PCP	.1	.0	.0	.0	.0	.1	.1	.0	.0	.0	.3	
	TOT %	.1	.0	.0	*	.1	.2	.1	.0	.0	.0	.6	
1<2	PCP	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.1	.1	.0	.1	.0	.1	.0	.0	.4	
	TOT %	.0	.1	.2	.2	.0	.1	.0	.1	.0	.0	.7	
2<5	PCP	.0	*	.2	.1	.3	.1	.0	.0	.0	.0	.7	
	NO PCP	.0	.1	.1	.1	.4	.4	.1	.0	.0	.0	1.2	
	TOT %	.0	.1	.3	.2	.7	.4	.1	.0	.0	.0	1.9	
5<10	PCP	.3	.4	.4	1.7	3.7	4.0	1.6	.2	.0	.0	12.3	
	NO PCP	4.1	1.6	.7	2.0	4.2	6.7	6.9	6.2	.0	.7	33.1	
	TOT %	4.4	2.0	1.1	3.6	8.0	10.7	8.5	6.5	.0	.7	45.3	
10+	PCP	.2	.1	.3	.7	.4	.3	.1	*	.0	.0	2.2	
	NO PCP	4.1	3.0	2.6	3.4	8.9	13.1	7.5	5.9	.0	.9	49.4	
	TOT %	4.3	3.1	2.9	4.2	9.3	13.3	7.6	5.9	.0	.9	51.6	
TOT OBS													1068
TOT PCT		8.7	9.3	4.5	8.3	18.0	24.7	16.3	12.5	.0	1.6	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.1	.0	.0	*	*	.1	.1	.0	.0	.0	.3	
	22+	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	TOT %	.1	.0	.0	*	.1	.2	.1	.0	.0	.0	.5	
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	*	.1	.1	.0	.0	.1	.0	.0	.0	.3	
	11-21	.0	.1	.1	.0	.0	.0	.0	.0	.0	.0	.2	
	22+	.0	*	.1	.1	.0	.1	.0	.1	.0	.0	.4	
	TOT %	.0	.1	.4	.2	.0	.1	.1	.1	.0	.0	.9	
2<5	0-3	.0	.0	.0	.0	.1	*	.0	.0	.0	.0	.1	
	4-10	.0	.1	.1	.1	.1	.4	.1	.0	.0	.0	.9	
	11-21	.0	.0	.1	.1	.2	*	.0	.0	.0	.0	.5	
	22+	.0	*	.1	.1	.4	.3	*	.0	.0	.0	.9	
	TOT %	.0	.1	.3	.3	.8	.8	.1	.0	.0	.0	2.4	
5<10	0-3	.2	.2	.0	.1	.6	.4	.5	.3	.0	.6	2.9	
	4-10	1.3	1.0	.5	.8	.9	2.5	2.5	1.8	.0	.0	11.4	
	11-21	1.3	.6	.6	1.5	2.3	2.2	2.0	2.1	.0	.0	12.7	
	22+	1.0	.0	.1	.8	3.3	4.5	2.7	1.6	.0	.0	14.0	
	TOT %	3.8	1.8	1.2	3.3	7.2	9.5	7.8	5.8	.0	.6	41.0	
10+	0-3	.2	.3	.2	.3	.3	.2	.7	.8	.0	1.2	4.3	
	4-10	2.8	2.4	1.3	1.9	3.5	4.8	3.1	2.7	.0	.0	22.6	
	11-21	1.4	.8	1.2	2.0	4.5	5.2	3.1	2.1	.0	.0	20.2	
	22+	.2	.0	.2	.7	1.4	4.1	1.0	.4	.0	.0	8.1	
	TOT %	4.7	3.5	2.8	4.9	9.8	14.3	7.9	6.0	.0	1.2	55.2	
TOT OBS													1212
TOT PCT		8.6	5.5	4.7	8.7	18.0	24.9	16.0	11.8	.0	1.8	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	2.0	7.1	16.2	9.1	3.0	.0	.0	.0	37.4	62.6	99
06009	.0	.0	1.0	6.8	16.5	8.7	3.9	1.0	1.0	.0	38.8	61.2	103
12015	.0	.0	1.6	7.0	17.2	7.8	2.3	.8	.0	.8	37.5	62.5	128
18021	.9	.0	.9	7.5	11.3	4.7	4.7	.9	.0	1.9	33.0	67.0	106
TOT	1	0	6	31	67	33	15	3	1	3	160	276	436
PCT	.2	.0	1.4	7.1	15.4	7.6	3.4	.7	.2	.7	36.7	63.3	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.0	1.9	2.3	38.6	57.2	215
06009	.0	.9	.6	2.3	44.0	52.3	350
12015	.0	.3	.6	2.6	37.4	59.0	310
18021	.0	.8	.8	2.1	43.7	52.6	378
TOT	0	7	11	29	518	688	1253
PCT	.0	.6	.9	2.3	41.3	54.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ ANDS+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	2.2	11.0	30.8	58.2	91
06009	.0	1.0	9.3	32.0	58.8	97
12015	.0	1.6	12.1	27.4	60.5	124
18021	1.0	2.1	10.3	25.8	63.9	97
TOT	1	7	44	118	247	409
PCT	.2	1.7	10.8	28.9	60.4	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.0	.0	.0	.0	.3	.0	2	.3
70/74	.0	.0	.0	.2	.0	.2	.2	.0	3	.5
65/69	.0	.0	.3	.2	1.2	.7	.8	.8	24	4.0
60/64	.0	.0	1.2	2.0	8.2	10.4	7.2	4.4	199	33.5
55/59	.0	.0	1.0	6.4	9.9	15.0	9.9	3.5	272	45.8
50/54	.0	.0	.3	1.2	3.4	3.7	3.7	2.9	90	15.2
45/49	.0	.0	.0	.0	.2	.2	.3	.0	4	.7
TOTAL	0	0	17	59	156	179	134	69	594	100.0
PCT	.0	.0	2.9	9.9	22.9	30.1	22.6	11.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.0	.1	.3	.0	.0	.0
.0	.2	.0	.0	.2	.2	.0	.0	.0	.0
.4	.7	.3	.2	.2	.7	.3	1.1	.0	.2
4.5	2.9	2.8	3.6	5.6	4.4	4.0	4.9	.0	.8
3.2	2.1	2.6	5.0	10.4	10.4	6.9	4.4	.0	.8
.1	.0	.2	.9	4.0	5.5	3.6	.5	.0	.5
.0	.0	.0	.0	.0	.7	.0	.0	.0	.0
8.2	5.9	5.9	9.6	20.3	21.8	14.9	10.9	.0	2.4

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	78	70	65	59	52	49	48	58.9	346
06009	75	38	65	59	53	51	48	58.8	448
12015	69	65	64	58	52	51	48	58.0	365
18021	79	66	64	57	51	49	48	57.5	488
TOT	79	67	64	58	52	50	48	58.3	1647

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	10.3	22.2	37.6	19.7	10.3	74	117		
06009	.0	11.3	26.0	28.0	22.0	12.7	74	130		
12015	.0	12.6	23.0	31.0	22.4	10.9	75	174		
18021	.0	14.9	21.3	27.0	25.3	11.5	74	174		
TOT	0	77	142	187	139	70	74	615		

JUNE

PERIOD: (PRIMARY) 1903-1971
(OVER-ALL) 1855-1971

TABLE 17

AREA 0008 CAPE HOWE NE
36.05 150.8EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.0	.0	.1	.1		2	.0	.2
9/10	.0	.0	.0	.0	.1	.0	.0	.1	.1	3	.0	.3
7/8	.0	.0	.0	.3	.0	.2	.0	.0	.0	5	.1	.4
6	.0	.0	.0	.6	.0	.1	.0	.0	.0	7	.0	.7
5	.0	.0	.0	.1	.3	.1	.1	.0	.0	6	.0	.6
4	.0	.0	.0	.1	.6	.3	.1	.0	.0	11	.0	1.1
3	.0	.0	.2	.8	.7	.3	.1	.0	.0	21	.0	2.2
2	.0	.1	.1	.9	1.7	.4	.1	.0	.0	32	.0	3.3
1	.0	.1	.1	1.8	1.6	.8	.0	.0	.0	42	.0	4.4
0	.0	.2	.8	3.3	2.9	.4	.1	.0	.0	75	.4	7.4
-1	.0	.0	.5	2.7	2.3	.6	.1	.0	.0	60	.0	6.2
-2	.0	.9	1.2	5.6	4.7	.5	.1	.0	.0	126	.4	12.7
-3	.0	.3	1.6	5.4	2.1	.2	.0	.0	.0	92	.1	9.4
-4	.0	.5	3.3	5.5	2.4	.1	.0	.0	.0	114	.2	11.6
-5	.0	.7	3.9	4.9	1.2	.0	.0	.0	.0	104	.0	10.8
-6	.0	.5	2.2	3.9	1.6	.0	.0	.0	.0	79	.0	8.2
-7/-8	.1	1.7	3.4	4.7	.7	.0	.0	.0	.0	102	.0	10.6
-9/-10	.2	.7	2.5	1.9	.1	.0	.0	.0	.0	52	.0	5.4
-11/-13	.1	.6	1.7	.4	.0	.0	.0	.0	.0	27	.0	2.8
-14/-16	.0	.3	.0	.0	.0	.0	.0	.0	.0	3	.0	.3
TOTAL	4	65	208	414	221	40	7	2	2	963	1.2	98.8
PCT	.4	6.7	21.6	43.0	22.9	4.2	.7	.2	.2	100.0	1.2	98.8

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	N 22-33	34-47	48+	PCT	1-3	4-10	11-21	NE 22-33	34-47	48+	PCT
<1	.0	1.2	.0	.0	.0	.0	1.2	.0	.3	.0	.0	.0	.0	.3
1-2	.0	2.4	.2	.0	.0	.0	2.6	.3	1.8	.0	.0	.0	.0	2.1
3-4	.0	1.2	1.6	.3	.0	.0	3.1	.0	1.1	.8	.0	.0	.0	1.9
5-6	.0	.3	.8	.0	.0	.0	1.2	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.7
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.5	3.0	.3	.0	.0	8.8	.3	3.2	2.5	.0	.0	.0	6.0

HGT	1-3	4-10	11-21	E 22-33	34-47	48+	PCT	1-3	4-10	11-21	SE 22-33	34-47	48+	PCT
<1	.0	.3	.0	.0	.0	.0	.3	.0	.2	.0	.0	.0	.0	.2
1-2	.0	1.2	.0	.0	.0	.0	1.2	.0	1.2	.0	.0	.0	.0	1.2
3-4	.0	1.0	.9	.0	.0	.0	1.9	.0	.3	2.3	.0	.0	.0	2.6
5-6	.0	.3	1.6	.3	.0	.0	2.3	.0	.0	.9	.2	.0	.0	1.1
7	.0	.0	.3	.0	.0	.0	.0	.0	.0	.4	.7	.0	.0	1.1
8-9	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.1	.3	.0	.4
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.5	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.7	.0	.0	.4
13-16	.0	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.3	2.9	.3	.0	.0	6.5	.0	1.8	3.9	2.3	.9	.0	9.0

PERIOD: (OVER-ALL) 1963-1971

JUNE

AREA 0008 CAPE HOME NE
36.05 150.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.2	1.2	.0	.0	.0	.0		1.5	.6	.1	.0	.0	.0	.0		.7
1-2	.6	2.6	.9	.0	.0	.0		4.1	.1	5.4	.5	.0	.0	.0		6.0
3-4	.0	1.2	4.4	.3	.0	.0		5.8	.0	.6	3.6	.0	.0	.0		4.2
5-6	.0	.6	2.8	1.3	.0	.0		4.7	.0	.2	2.6	1.3	.0	.0		4.1
7	.0	.0	.9	1.2	.0	.0		2.1	.0	.0	1.3	.7	.1	.0		2.1
8-9	.0	.0	.0	1.4	1.3	.0		2.7	.0	.0	.1	.6	.0	.0		.7
10-11	.0	.0	.0	.0	1.4	.0		1.4	.0	.0	.3	.7	.4	.0		1.4
12	.0	.0	.0	.5	.0	.0		.5	.0	.0	.0	.4	.0	.0		.4
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	1.0	.0	.0		1.0
17-19	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.1	.0	.0		.1
20-22	.0	.0	.0	.0	.0	.3		.3	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.2	.0		.2	.0	.0	.0	.0	.1	.0		.1
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.8	5.6	9.0	5.0	9.2	.3		23.9	.7	6.3	8.5	4.8	.6	.0		20.7

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.5	.2	.3	.0	.0	.0		1.1	.7	.5	.0	.0	.0	.0		1.2	
1-2	.0	3.8	1.2	.0	.0	.0		4.9	.0	1.9	.5	.0	.0	.0		2.4	
3-4	.0	.9	1.6	.3	.0	.0		2.8	.0	.7	1.3	.0	.0	.0		2.0	
5-6	.0	.2	2.4	1.2	.0	.0		3.8	.0	.3	2.0	.0	.0	.0		2.3	
7	.0	.0	.3	.6	.2	.0		1.2	.0	.0	.3	.1	.0	.0		.4	
8-9	.0	.0	.2	.2	.0	.0		.5	.0	.0	.0	.0	.0	.0		.0	
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.3	.0	.0	.0		.3	
13-16	.0	.0	.0	.3	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.5	5.2	6.0	2.6	.2	.0		14.6	.7	3.4	4.4	.1	.0	.0		8.6	98.0

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.9	4.2	.3	.0	.0	.0	8.5	
1-2	1.0	20.2	3.3	.0	.0	.0	24.4	
3-4	.3	6.8	16.3	1.0	.0	.0	24.4	
5-6	.3	2.0	14.0	4.2	.0	.0	20.5	
7	.0	.3	3.3	3.3	.3	.0	7.2	
8-9	.3	.0	1.3	2.3	1.6	.0	5.5	
10-11	.0	.0	.3	1.0	2.3	.0	3.6	
12	.0	.0	.3	1.6	.0	.0	2.0	
13-16	.0	.3	.7	1.3	.0	.0	2.3	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.3	.0	.3	.7	
23-25	.0	.0	.0	.0	.3	.0	.3	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.3	.0	.3	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.9	33.9	39.7	15.3	4.9	.3	100.0	307

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.5	6.2	9.0	6.5	3.0	1.2	.5	1.0	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	122	4
6-7	.0	.7	4.0	8.7	5.0	4.0	1.7	1.5	2.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	113	7
8-9	.0	.2	3.2	5.5	4.0	2.7	2.5	.7	1.5	.5	.5	.0	.2	.0	.2	.0	.0	.0	.0	92	8
10-11	.0	.0	.7	2.0	.5	.2	1.5	2.0	.7	.7	1.0	.0	.0	.0	.0	.0	.0	.0	.0	38	10
12-13	.0	.0	.0	.0	.2	.7	.2	.5	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	10	11
>13	.0	.0	.0	.2	.2	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3	11
INDET	1.5	.7	.7	1.2	.2	.0	.0	.0	.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	24	5
TOTAL	16	32	71	95	37	37	25	23	20	13	10	1	1	0	1	0	0	0	0	402	7
PCT	4.0	8.0	17.7	23.6	14.2	9.2	6.2	5.7	5.0	3.2	2.5	.2	.2	.0	.2	.0	.0	.0	.0	100.0	

JULY

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1855-1972AREA 0008 CAPE HOWE NE
36.05 150.7E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	2.5	.7	.7	.0	.0	.0	.0	3.9	1.2	2.1	6.3	.0	.7	.0	85.8
NE	3.1	10.0	1.5	.0	.0	.0	.0	14.6	1.9	.8	.0	.0	.0	.0	82.8
E	3.1	5.2	3.1	.0	.0	.0	.0	11.5	5.8	.0	2.1	.0	.0	.0	80.6
SE	6.3	8.4	2.9	.0	.0	.0	.0	17.2	6.3	3.4	.0	.0	.0	.0	73.1
S	5.6	7.0	1.5	.0	.0	.0	.6	13.6	4.7	1.4	.3	.0	.3	.0	80.0
SW	4.3	8.3	1.5	.0	.0	.0	1.0	15.1	2.6	1.8	1.1	.0	.8	.0	79.4
W	1.4	2.6	.6	.0	.0	.0	.0	4.6	.6	1.7	2.0	.0	.0	.0	91.0
NW	4.9	1.1	.4	.0	.0	.0	.0	6.4	.0	1.1	.4	.0	.0	.0	92.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	8.3	.0	.0	.0	.0	.0	8.3	.0	.0	.0	.0	.0	.0	91.7
TOT PCT	3.8	5.4	1.3	.0	.0	.0	.4	10.6	2.4	1.6	1.6	.0	.4	.0	83.6
TOT OBS:	1118														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WO PCPN	FOG WO PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST SNOW	NO SIG WEA
00003	3.4	6.0	2.2	.0	.0	.0	.4	12.1	3.0	.0	.9	.9	.0	.0	84.1
06009	3.6	6.0	.6	.0	.0	.0	.3	10.5	1.2	.9	1.8	.0	.0	.0	85.6
12015	3.5	1.6	1.2	.0	.0	.0	.4	5.8	4.3	3.5	1.6	.0	.8	.0	84.5
18021	4.8	7.5	1.2	.0	.0	.0	.3	13.7	1.5	1.8	2.1	.0	.6	.0	80.9
TOT PCT	3.9	5.4	1.2	.0	.0	.0	.3	10.7	2.3	1.6	1.6	.0	.3	.0	83.7
TOT OBS:	1198														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.8	5.3	5.4	.8	.2	.0		12.4	12.1	10.6	10.9	13.6	15.3	11.3	12.4	12.7	11.3	
NE	.4	3.1	1.9	.2	.1	.0		5.7	10.6	2.1	5.4	8.1	13.0	3.6	6.1	2.1	4.1	
E	.3	2.9	.7	.4	.2	.0		4.6	11.5	3.5	3.4	4.6	4.5	5.9	5.8	5.2	3.8	
SE	.5	2.6	1.6	.6	.4	.2		5.7	14.3	4.7	4.0	6.7	7.4	3.8	6.9	5.2	6.6	
S	1.2	6.5	5.8	1.7	.7	.5		16.3	14.4	13.0	14.0	20.7	20.8	17.8	14.5	13.5	19.7	
SW	1.0	8.5	8.5	5.0	1.7	.7		25.4	17.1	33.5	26.3	23.3	18.4	26.3	22.8	28.8	26.4	
W	.8	6.3	5.7	2.4	.2	.1		15.5	13.5	16.7	14.8	11.8	9.1	16.7	17.8	20.0	17.3	
NW	.8	5.9	4.1	1.4	.2	.0		12.3	12.0	15.8	17.9	9.2	10.9	10.3	12.7	10.7	12.6	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	2.0							2.0	.0	.0	3.4	2.0	.5	4.3	1.0	2.0	2.2	
TOT OBS	125	661	544	202	60	22	1614		13.7	106	237	235	198	139	197	300	182	
TOT PCT	7.7	41.0	33.7	12.5	3.7	1.4		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+					00	06	12	18
N	2.7	6.7	2.6	.4	.1		12.4	12.1	10.8	14.3	12.0	12.1	
NE	1.9	2.7	1.1	.8	.1		5.7	10.6	4.4	10.3	5.1	2.9	
E	1.6	2.1	.5	.4	.1		4.6	11.5	3.4	4.6	5.9	4.7	
SE	1.5	2.6	.8	.4	.4		5.7	14.3	4.2	7.0	5.6	5.7	
S	3.6	7.5	3.3	1.0	.9		16.3	14.4	13.7	20.8	15.8	14.3	
SW	3.9	9.9	7.5	2.6	1.5		25.4	17.1	28.5	21.2	24.3	27.9	
W	3.3	7.1	4.1	.9	.1		15.5	13.5	15.4	10.6	17.3	19.0	
NW	3.1	6.2	2.4	.7	.0		12.3	12.0	17.3	9.9	11.7	11.4	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.0						2.0	.0	2.3	1.3	2.4	2.1	
TOT OBS	380	725	357	103	49	1614		13.7	343	453	336	482	
TOT PCT	23.5	44.9	22.1	6.4	3.0		100.0		100.0	100.0	100.0	100.0	

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1853-1972

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

WIND DIR	CALM	1-3	4-10	11-21	22-33	34-47	48+	MEAN	PCT FREQ	TOTAL OBS
00003	2.3	4.4	40.8	33.2	13.4	4.7	1.2	14.2	100.0	343
06009	1.3	6.0	40.6	33.6	13.7	2.4	1.5	13.6	100.0	433
12015	2.4	5.4	41.7	35.4	10.7	3.6	.9	13.1	100.0	336
18021	2.1	6.0	40.9	33.0	12.0	4.4	1.7	13.9	100.0	482
TOT	32	93	661	544	202	60	22	13.7		1614
PCT	2.0	5.8	41.0	33.7	12.5	3.7	1.4	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & 9	TOTAL CLOUD OBS	MEAN CLOUD COVER
N	6.0	1.4	3.2	1.6		3.6
NE	2.1	1.5	1.1	1.1		4.1
E	1.3	1.4	1.4	.7		4.1
SE	.5	1.0	.7	.6		5.0
S	3.6	3.4	3.5	2.2		4.7
SW	12.1	6.0	10.0	2.4		3.6
W	8.0	3.6	3.4	1.1		2.9
NW	4.5	2.4	3.9	.1		3.4
VAR	.0	.0	.0	.0		.0
CALM	1.0	.2	.7	.2		3.5
TOT OBS	162	83	128	41	414	3.7
TOT PCT	39.1	20.0	30.9	9.9	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH > 4/8)
AND OCCURRENCE OF NH < 5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH < 5/8	TOTAL
149	299	599	999	1999	3499	4999	6499	7999		ANY HGT	OBS
.0	.0	.2	.7	1.3	.4	.8	.0	.0	.0	8.7	
.0	.0	.0	.1	.8	.3	.1	.0	.0	.0	3.4	
.0	.0	.2	.5	.2	.4	.0	.0	.0	.0	3.6	
.0	.0	.1	.5	1.0	.1	.2	.0	.0	.0	1.9	
.0	.0	.2	2.3	3.2	.7	.2	.0	.0	.0	8.2	
.0	.0	.5	2.5	2.8	2.5	.5	.0	.0	.0	21.7	
.0	.0	.0	.0	2.7	.0	.5	.0	.0	.0	13.0	
.0	.0	.0	.2	1.1	.8	.0	.0	.0	.0	8.8	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.2	.5	.0	.0	.0	.0	.0	1.4	
.0	.0	.5	2.9	5.6	2.1	1.0	.0	.0	.0	29.3	
.0	.0	1.2	7.0	13.5	5.1	2.4	.0	.0	.0	70.8	414
										100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH > 4/8) AND VSBY (NH)

CEILING (FEET)	OR > 10	OR > 5	OR > 2	VSBY (NH) OR > 1	OR > 1/2	OR > 1/4	OR > 50 YD	OR > 0
OR > 6500	.0	.0	.0	.0	.0	.0	.0	.0
OR > 5000	.0	.0	.0	.0	.0	.0	.0	.0
OR > 4500	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
OR > 4000	6.8	7.5	7.5	7.5	7.5	7.5	7.5	7.5
OR > 3500	16.5	20.2	20.9	20.9	20.9	20.9	20.9	20.9
OR > 3000	22.1	26.8	27.5	27.5	27.5	27.5	27.5	27.5
OR > 2500	22.6	28.0	28.7	28.7	28.7	28.9	28.9	28.9
OR > 2000	22.6	28.0	28.7	28.7	28.7	28.9	28.9	28.9
OR > 1500	22.6	28.0	28.7	28.7	28.7	28.9	28.9	28.9
OR > 1000	22.6	28.0	28.7	28.7	28.7	28.9	28.9	28.9
TOTAL	96	119	122	122	122	123	123	123

TOTAL NUMBER OF OBS: 425

PCT FREQ NH < 5/8: 71.1

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	9	TOTAL OBS
13.1	19.4	16.7	11.4	7.6	6.6	8.9	8.3	6.0	.0	916

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.7	.0	.1	.0	.0	.1	.2	.0	.0	.0	1.1	
	TOT %	.7	.0	.1	.0	.0	.1	.2	.0	.0	.0	1.1	
1<2	PCP	.1	*	*	.0	.0	.1	.0	.0	.0	.0	.3	
	NO PCP	.0	.0	.0	.0	*	.3	.0	.0	.0	.0	.4	
	TOT %	.1	*	*	.0	*	.4	.0	.0	.0	.0	.6	
2<5	PCP	.2	.1	.1	.1	.1	.1	*	.3	.0	.0	.9	
	NO PCP	.0	.1	.0	.0	.2	.1	.0	.0	.0	.0	.4	
	TOT %	.2	.2	.1	.1	.2	.2	*	.3	.0	.0	1.3	
5<10	PCP	.7	.6	.3	.6	1.5	2.8	.5	.5	.0	.0	7.1	
	NO PCP	5.5	2.9	1.2	1.9	4.9	7.5	5.3	4.4	.0	.3	33.9	
	TOT %	5.8	3.5	1.5	2.6	6.4	10.3	5.8	4.9	.0	.3	41.0	
10+	PCP	.0	.1	.1	.2	.6	1.1	.2	.0	.0	.1	2.3	
	NO PCP	6.0	2.0	2.3	2.5	8.8	13.3	9.3	6.6	.0	.7	53.7	
	TOT %	6.0	2.1	2.6	2.6	9.5	16.4	9.4	6.6	.0	.8	56.0	
TOT OBS													1118
TOT PCT		12.7	5.8	4.3	5.3	16.1	27.4	15.5	11.8	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.2	
	4-10	.2	.0	.1	.0	.0	.1	.0	.0	.0	.0	.4	
	11-21	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	
	22+	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
	TOT %	.6	.0	.1	.0	.1	.2	.2	.0	.0	.0	1.1	
1<2	0-3	.1	.0	.0	.0	*	.1	.0	.0	.0	.0	.2	
	4-10	.0	*	*	.0	.0	.2	.0	.0	.0	.0	.2	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2	
	TOT %	.1	.1	*	.0	*	.4	.0	.0	.0	.0	.6	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.2	.1	.1	.1	.1	.1	.2	.0	.0	.7	
	11-21	.2	.0	.0	.0	.0	.0	.0	.2	.0	.0	.4	
	22+	.1	.0	.0	*	.3	.2	.0	.0	.0	.0	.6	
	TOT %	.2	.2	.1	.1	.4	.2	.1	.4	.0	.0	1.8	
5<10	0-3	.2	.3	.1	.2	.7	.3	.3	.3	.0	.2	2.6	
	4-10	2.1	1.5	.6	.9	1.7	2.1	1.9	2.2	.0	.0	13.1	
	11-21	2.5	1.2	.5	.7	2.0	3.4	2.2	1.2	.0	.0	13.7	
	22+	.5	.2	.2	.5	1.4	3.5	.8	.8	.0	.0	7.9	
	TOT %	5.3	3.2	1.3	2.4	5.8	9.3	5.2	4.3	.0	.2	37.2	
10+	0-3	.5	.2	.2	.2	.7	.6	.2	.7	.0	1.1	4.5	
	4-10	3.1	1.5	2.1	1.5	4.1	6.5	4.3	3.9	.0	.0	27.1	
	11-21	2.2	.7	.3	.7	3.8	6.1	3.8	2.2	.0	.0	19.9	
	22+	.2	.0	.2	.3	1.1	3.9	1.4	.7	.0	.0	7.8	
	TOT %	6.1	2.4	2.7	2.7	9.7	17.0	9.8	7.6	.0	1.1	59.2	
TOT OBS													1248
TOT PCT		12.3	5.9	4.3	5.2	16.0	27.2	15.3	12.4	.0	1.4	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	400 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL DBS	NM <5/8 ANY MGT	TOTAL DBS
00203	.0	.0	1.7	5.9	13.4	5.0	4.2	.0	.0	.0	30.3	69.7	119
06209	.0	.0	.0	7.6	12.7	5.9	3.4	.0	.0	.0	29.7	70.3	118
12215	.0	.0	1.5	5.8	8.0	2.9	.7	.0	.0	.0	19.0	81.0	137
18221	.0	.0	.9	4.5	13.5	4.5	.0	.0	.0	.0	23.4	76.6	111
TOT	0	0	5	29	57	22	10	0	0	0	123	362	485
PCT	.0	.0	1.0	6.0	11.8	4.5	2.1	.0	.0	.0	25.4	74.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL DBS
00203	.4	.8	.8	2.5	31.1	64.3	244
06209	.0	1.1	.9	1.6	43.0	54.1	377
12215	.0	1.0	.3	2.1	30.2	66.3	291
18221	.0	1.3	1.1	1.1	41.2	55.3	376
TOT	1	14	8	22	481	762	1288
PCT	.1	1.1	.6	1.7	37.3	59.2	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <50VD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL DBS
00203	.0	3.0	11.1	25.3	63.6	99
06209	.0	.0	9.6	24.0	66.3	104
12215	.0	1.6	8.2	13.1	78.7	122
18221	.0	1.0	6.0	20.0	74.0	100
TOT	0	6	37	86	302	425
PCT	.0	1.4	8.7	20.2	71.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL DBS	PCT FREQ
65/69	.0	.2	.2	.0	.2	.9	.3	.2	12	1.8
60/64	.0	.0	.6	1.4	5.0	4.9	3.5	.9	107	16.3
55/59	.0	.0	1.4	6.5	14.9	14.3	8.2	4.1	325	49.4
50/54	.0	.2	.2	2.3	8.7	7.0	9.1	3.0	200	30.4
45/49	.0	.0	.3	.0	.8	.6	.3	.2	14	2.1
TOTAL	0	2	17	67	194	182	141	55	658	100.0
PCT	.0	.3	2.6	10.2	29.5	27.7	21.4	8.4		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.1	.5	.0	.0	.0	.2	.5	.6	.0	.0
4.0	1.0	1.1	1.7	1.3	2.4	1.7	2.4	.0	.2
5.3	2.3	2.4	3.0	8.3	11.1	10.1	6.0	.0	.9
1.7	.3	.8	.5	5.1	12.8	5.9	2.8	.0	.6
.1	.0	.0	.0	.0	1.3	.7	.1	.0	.0
11.1	4.6	4.3	5.1	14.6	27.7	18.9	11.9	.0	1.7

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL DBS
00203	67	66	64	57	51	48	46	57.0	335
06209	68	65	63	57	52	49	48	57.2	456
12215	72	63	62	56	50	49	47	56.1	345
18221	66	62	61	55	50	48	45	55.3	490
TOT	72	65	62	56	51	48	45	56.4	1626

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL DBS
00203	.0	16.4	24.0	27.4	23.3	8.9	72	146		
06209	.0	17.0	28.6	26.4	22.0	6.0	72	182		
12215	.0	14.0	26.3	31.0	20.5	8.2	73	171		
18221	.0	4.8	37.2	26.6	19.7	11.7	75	188		
TOT	0	88	202	191	146	60	73	687		

JULY

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1855-1972

TABLE 17

AREA 0008 CAPE HOWE NE
36.05 150.7EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	TOT	N FOG	NO FOG
9/10	.0	.0	.0	.0	.1	.0	.1	2	.0	.2
7/8	.0	.0	.0	.1	.0	.2	.1	4	.0	.4
6	.0	.0	.0	.0	.1	.0	.0	1	.0	.1
5	.0	.0	.0	.4	.2	.3	.0	9	.0	.9
4	.0	.1	.2	1.1	.3	.2	.0	19	.1	1.8
3	.0	.0	.2	.4	.3	.2	.0	13	.0	1.3
2	.0	.0	.5	1.9	1.3	.1	.0	38	.0	3.9
1	.0	.0	.9	1.6	1.3	.3	.0	47	.0	4.4
0	.0	.6	1.9	4.6	3.3	.0	.0	104	.1	10.5
-1	.0	.1	3.0	3.4	1.3	.0	.0	76	.0	7.8
-2	.0	.4	3.0	4.5	1.1	.2	.0	90	.2	9.0
-3	.1	.4	4.0	5.7	1.3	.0	.0	113	.3	11.4
-4	.0	1.2	6.3	3.2	.6	.0	.0	111	.5	10.8
-5	.1	2.0	4.5	3.0	.5	.0	.0	99	.3	9.8
-6	.1	1.2	3.9	2.0	.1	.0	.0	72	.1	7.2
-7/-8	.0	2.7	5.7	1.0	.1	.0	.0	93	.3	9.2
-9/-10	.1	2.1	3.3	.8	.0	.0	.0	62	.0	6.3
-11/-13	.4	1.1	.8	.3	.0	.0	.0	26	.0	2.7
-14/-16	.0	.2	.1	.0	.0	.0	.0	3	.0	.3
TOTAL	8		375	126	15	2		980	1.9	98.1
PCT	.8	12.2	38.3	34.1	12.9	1.5	.2	100.0	1.9	98.1

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	.8	.0	.0	.0	.0	1.1	.0	.4	.0	.0	.0	.0	.4
1-2	.3	4.1	.6	.0	.0	.0	5.0	.0	1.0	.3	.0	.0	.0	1.3
3-4	.0	1.0	1.1	.0	.0	.0	2.0	.0	.4	1.0	.0	.0	.0	1.4
5-6	.0	.3	1.3	.0	.0	.0	1.6	.0	.1	.9	.0	.0	.0	1.0
7	.0	.0	.8	.0	.0	.0	.8	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	6.2	4.1	.0	.0	.0	10.8	.0	1.8	2.6	.0	.0	.0	4.4

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.0	.4	.0	.0	.0	.0	.4
1-2	.0	1.4	.0	.0	.0	.0	1.4	.0	.8	.0	.0	.0	.0	.8
3-4	.0	1.4	.0	.0	.0	.0	1.4	.0	.3	1.3	.0	.0	.0	1.7
5-6	.0	.2	.8	.0	.0	.0	1.0	.0	.0	.3	.3	.0	.0	.6
7	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.4	.0	.0	.4
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.3	.0	.9
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	3.6	.8	.3	.3	.0	5.0	.0	1.6	1.9	1.0	.3	.0	4.7

PERIOD: (OVER-ALL) 1963-1972

JULY
TABLE 18 (CONT)

AREA 0008 CAPE HOWE NE
36.05 150.7E

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.5	.0	.0	.0	.0	.5	.6	.3	.0	.0	.0	.0	.9	
1-2	.0	1.4	.3	.0	.0	.0	2.0	.0	5.0	.8	.0	.0	.0	5.7	
3-4	.0	3.1	2.9	.5	.0	.0	6.5	.0	3.2	4.8	.1	.0	.0	8.1	
5-6	.0	.0	2.3	.8	.0	.0	3.1	.0	.6	3.1	2.5	.3	.0	6.5	
7	.0	.5	.3	.2	.0	.0	1.1	.0	.1	.1	1.8	.3	.0	2.7	
8-9	.0	.0	.3	.8	.5	.0	1.5	.0	.0	.3	1.1	1.4	.0	1.5	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.6	.3	.0	.9	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3	
13-16	.0	.0	.0	.3	.3	.3	.9	.0	.0	.0	.3	.0	.3	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.6	9.1	9.3	7.2	2.9	.3	29.4	
TOT PCT	.0	5.6	6.3	2.6	.8	.3	15.5								

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.3	.2	.5	.0	.0	.0	.8	.6	.4	.0	.0	.0	.0	1.0	
1-2	.0	4.4	2.0	.0	.0	.0	6.3	.0	4.1	.7	.0	.0	.0	4.7	
3-4	.0	3.5	2.7	.0	.0	.0	6.2	.0	.9	1.1	.0	.0	.0	2.0	
5-6	.0	.3	1.8	.0	.0	.0	2.1	.0	.0	1.4	.3	.0	.0	1.7	
7	.0	.0	.5	.6	.0	.0	1.1	.0	.0	.0	.3	.0	.0	.3	
8-9	.0	.0	.0	.6	.0	.0	.6	.0	.0	.3	.3	.0	.0	.6	
10-11	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.4	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.3	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.6	5.3	3.4	1.6	.0	.0	10.9	98.5
TOT PCT	.3	8.4	7.3	1.7	.3	.0	17.7								

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT DBS
<1	3.3	4.2	.3	.0	.0	.0	7.7	
1-2	.9	21.7	4.8	.0	.0	.0	27.4	
3-4	.0	13.7	14.6	.6	.0	.0	28.9	
5-6	.0	1.5	11.6	3.9	.3	.0	17.3	
7	.0	.6	2.1	3.6	.3	.0	6.5	
8-9	.0	.0	1.2	3.0	2.1	.0	6.3	
10-11	.0	.0	.6	1.2	.6	.0	2.4	
12	.0	.0	.0	.6	.6	.0	1.2	
13-16	.0	.0	.0	1.2	.3	.3	1.8	
17-19	.0	.0	.0	.0	.0	.3	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	336
TOT PCT	4.2	41.7	35.1	14.3	4.2	.6	100.0	

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	2.0	6.8	13.6	4.8	2.0	.8	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	122	3
6-7	.0	.8	4.0	10.6	8.6	2.8	1.3	2.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123	6
8-9	.0	.5	2.8	5.3	4.8	3.5	2.3	.8	2.5	.3	.5	.0	.3	.0	.0	.0	.0	.0	.0	90	8
10-11	.0	.0	.3	1.3	1.5	.5	.5	.8	.5	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	24	12
12-13	.0	.0	.3	.3	.0	.5	.3	.0	.3	.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	6	14
>13	.0	.0	.0	.3	.3	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	6
INDET	1.3	.5	.5	.5	.3	.5	.0	.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	397	6
TOTAL	13	34	85	91	69	34	21	17	22	5	4	2	.0	.0	.0	.0	.0	.0	.0	100.0	
PCT	3.3	8.6	21.4	22.9	17.4	8.6	5.3	4.3	5.5	1.3	1.0	.5	.0	.0	.0	.0	.0	.0	.0		

PERIOD: (PRIMARY) 1902-1972
(OVER-ALL) 1855-1972

AUGUST

AREA 0008 CAPE HOWE NE
36.15 150.9E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
N	1.5	.6	.3	.0	.0	.0	.0	2.3	1.6	2.9	1.5	.0	.4	.0	92.7
NE	2.8	3.7	4.3	.0	.0	.0	.0	10.7	2.4	3.7	4.3	.0	1.5	.0	78.6
E	10.6	11.1	6.1	.0	.0	.0	.0	27.8	1.7	2.2	4.4	.0	.0	.0	66.1
SE	3.8	11.5	7.2	.0	.0	.0	.0	22.5	2.9	.0	6.7	.0	1.9	.0	66.0
S	2.9	11.1	2.7	.0	.0	.0	.0	16.8	2.0	2.0	1.5	.0	.0	.0	79.2
SW	4.1	8.4	2.8	.0	.0	.0	.5	15.8	2.0	3.9	.9	.0	.5	.0	78.1
W	3.1	.0	.9	.0	.0	.0	.0	4.1	3.1	5.7	1.5	.0	1.1	.0	84.8
NW	1.2	.8	1.2	.0	.0	.0	.0	3.2	2.2	4.2	2.0	.0	1.2	.0	88.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	.0	92.9
TOT PCT	3.1	5.0	2.4	.0	.0	.0	.1	10.6	2.2	3.4	2.1	.0	.8	.0	82.1
TOT OBS:	974														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	NO SIG WEA
00003	3.1	5.2	2.6	.0	.0	.0	.0	10.8	1.5	.0	1.5	.0	2.1	.0	84.0
06009	3.1	3.8	2.1	.0	.0	.0	.3	9.3	3.4	3.1	2.4	.0	1.0	.0	83.1
12015	2.8	2.8	3.2	.0	.0	.0	.0	8.7	2.8	7.5	2.0	.0	.4	.0	79.8
18021	4.3	7.5	2.1	.0	.0	.0	.0	13.9	1.1	3.6	2.5	.0	.0	.0	80.1
TOT PCT TOT OBS:	3.3 1017	4.8	2.5	.0	.0	.0	.1	10.7	2.3	3.7	2.2	.0	.8	.0	81.6

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.9	9.4	6.6	.8	.1	.1		17.9	11.0		11.2	14.2	17.4	20.6	15.9	26.8	17.8	15.5
NE	.7	4.4	2.2	.4	*	.1		7.9	10.7		6.0	4.7	10.8	14.3	13.9	4.8	5.5	4.4
E	.5	2.6	.8	.2	.1	.0		4.2	9.3		2.9	4.3	7.5	6.0	4.0	1.9	3.5	2.0
SE	.3	2.7	1.7	.6	*	.0		5.3	11.5		4.5	6.8	6.8	6.6	3.8	6.3	3.2	3.8
S	.4	4.7	6.3	2.7	.3	.0		14.4	14.8		16.4	14.9	17.2	15.6	11.1	11.8	11.5	17.0
SW	.5	6.2	8.1	4.1	1.5	.1		20.5	16.8		28.6	20.2	18.2	15.5	22.8	18.1	21.6	24.6
W	.7	5.4	5.5	2.2	.6	.0		14.4	14.3		17.6	15.1	12.0	8.5	14.9	15.5	18.1	14.6
NW	.8	6.4	5.4	1.1	.1	.0		13.8	11.8		10.0	17.6	9.3	10.3	12.1	14.7	16.9	17.3
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.5							1.6	.3		2.9	2.2	.8	2.6	1.4	.0	2.0	1.2
TOT OBS	99	647	566	186	43	5	1546		13.1		105	225	238	189	138	207	253	171
TOT PCT	6.4	41.8	36.6	12.0	2.8	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40						00	03	06	12	18
N	4.5	10.4	2.6	.3	.1		17.9	11.0		13.3	18.8	22.5	16.9	
NE	2.3	4.2	1.2	.1	.1		7.9	10.7		5.1	12.2	8.5	5.1	
E	2.0	1.6	.5	.1	*		4.2	9.3		3.9	6.8	2.8	2.9	
SE	1.2	2.9	1.1	.1	.0		5.3	11.5		6.1	6.7	5.3	3.3	
S	2.3	6.8	4.0	1.3	*		14.4	14.8		15.4	16.6	11.5	13.7	
SW	3.2	8.0	6.3	2.7	.7		20.5	16.8		22.9	17.1	20.0	22.8	
W	3.0	6.0	4.1	1.1	.1		14.4	14.3		15.9	10.5	15.2	16.7	
NW	3.2	7.2	2.9	.5	*		13.8	11.8		15.2	9.7	13.7	17.0	
VAR	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	
CALM	1.5						1.6	.3		2.4	1.6	.6	1.7	
TOT OBS	358	730	346	94	18	1546		13.1		330	447	345	424	
TOT PCT	23.2	47.2	22.4	6.1	1.2		100.0			100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			40+	MEAN	PCT FREQ	TOTAL DBS
				11-21	22-33	34-47				
00003	2.4	5.8	36.7	37.9	13.6	3.0	.6	12.7	100.0	930
06009	1.6	4.3	42.5	38.5	10.7	2.5	.0	12.7	100.0	647
12015	.6	4.6	43.8	35.9	11.9	2.6	.6	12.2	100.0	345
18021	1.7	5.2	43.4	34.2	12.3	3.1	.2	13.0	100.0	424
TOT	24	76	646	566	186	43	.5	13.1		1946
PCT	1.6	4.9	41.8	36.6	12.0	2.8	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	5.5	1.5	2.9	2.2		3.6
NE	4.0	1.7	3.1	1.7		4.1
E	1.4	.3	1.5	1.3		5.3
SE	.7	1.3	2.5	.7		5.2
S	3.3	4.0	5.0	2.6		4.5
SW	9.7	4.7	7.7	3.2		3.9
W	7.9	3.9	3.6	.8		3.0
NW	4.9	1.2	2.7	.8		3.1
VAR	.0	.0	.0	.0		.0
CALM	.5	.3	.5	1.0		5.4
TOT OBS	148	72	115	56	391	3.9
TOT PCT	37.9	18.4	29.4	14.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

OBS	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL DBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.0	1.2	1.4	1.2	.3	.0	.0	.0	8.1	
.0	.0	.3	.8	1.2	.8	.3	.0	.0	.3	7.0	
.0	.0	.0	.3	.8	.4	.0	.0	.0	.0	3.0	
.0	.0	.0	.5	1.9	.4	.0	.0	.0	.0	2.4	
.0	.0	.3	1.3	2.5	1.8	.3	.0	.0	.0	8.6	
.0	.0	1.6	1.9	2.8	2.6	1.0	.0	.0	.0	16.0	
.0	.0	.3	.9	1.1	.9	.2	.0	.0	.0	12.4	
.0	.0	.0	.4	1.2	.8	.0	.0	.0	.3	7.0	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.3	.0	.5	.3	.0	.0	.0	.0	1.0	
.0	.0	.8	2.8	3.2	3.7	.8	.0	.0	.2	25.6	391
.0	.0	2.0	7.2	13.3	9.5	2.0	.0	.0	.5	65.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50VD	= OR >0
= OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
= OR >4000	.5	.5	.5	.5	.5	.5	.5	.5
= OR >3500	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
= OR >2000	10.9	11.9	11.9	11.9	11.9	11.9	11.9	11.9
= OR >1000	22.8	25.3	25.6	25.6	25.6	25.6	25.6	25.6
= OR >600	26.3	32.0	33.0	33.0	33.0	33.0	33.0	33.0
= OR >300	27.0	33.7	34.7	34.7	35.0	35.0	35.0	35.0
= OR >150	27.0	33.7	34.7	34.7	35.0	35.0	35.0	35.0
= OR >0	27.0	33.7	34.7	34.7	35.0	35.0	35.0	35.0
TOTAL	109	136	140	140	141	141	141	141

TOTAL NUMBER OF DBS: 403

PCT FREQ NH <5/8: 65.0

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
13.5	18.5	13.8	10.3	7.7	8.4	9.0	8.0	10.8	.0	465

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	PCP	.1	.1	.0	.0	.0	.3	.0	.0	.0	.0	.4	.7
	NO PCP	.1	.3	.1	.0	.1	.3	.0	.0	.0	.0	.1	1.1
	TOT %	.1	.4	.1	.0	.1	.6	.0	.0	.0	.0	.5	.4
1<2	PCP	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	.4	.1
	NO PCP	.0	.0	.0	.0	.0	.0	.1	.1	.0	.0	.1	.5
	TOT %	.0	.0	.1	.1	.1	.1	.1	.1	.0	.0	.5	.6
2<5	PCP	.0	.0	.0	.0	.4	.3	.0	.0	.0	.0	.6	.6
	NO PCP	.1	*	.1	.2	.1	.2	.0	.0	.0	.0	.6	1.2
	TOT %	.1	*	.1	.2	.5	.5	.0	.0	.0	.0	1.2	6.8
5<10	PCP	.3	.6	1.1	.6	1.5	2.0	.3	.4	.0	.0	29.6	36.3
	NO PCP	7.5	2.4	.6	2.0	3.3	5.9	3.7	4.1	.0	.1	29.6	36.3
	TOT %	7.8	3.1	1.7	2.5	4.7	7.9	4.0	4.5	.0	.1	58.4	60.8
10+	PCP	.1	.2	.1	.5	.4	.8	.3	.0	.0	.0	2.4	3.4
	NO PCP	9.7	4.7	2.6	2.1	8.3	12.0	9.5	8.2	.0	1.3	58.4	60.8
	TOT %	9.8	5.0	2.7	2.6	8.7	12.8	9.8	8.2	.0	1.3	60.8	974
TOT OBS													
TOT PCT													
		17.7	8.4	4.6	5.4	14.1	21.8	13.9	12.8	.0	1.4	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	TOT %	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
1/2<1	0-3	.0	*	*	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.4	.4
	22+	.0	.0	.0	.0	*	.4	.0	.0	.0	.0	.1	1.0
	TOT %	.1	.3	*	.0	*	.5	.0	.0	.0	.0	.8	.8
1<2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	.2
	11-21	.0	.0	.0	.0	*	*	*	*	.0	.0	.2	.2
	22+	.0	.0	.1	.0	*	*	.0	.0	.0	.0	.2	.2
	TOT %	.0	.0	.1	.1	.2	.1	*	*	.0	.0	.8	.8
2<5	0-3	.1	*	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1
	4-10	.2	*	*	.0	.0	.1	.0	.0	.0	.0	.4	.4
	11-21	.0	.0	*	.1	.1	.1	.0	.0	.0	.0	.7	.7
	22+	.0	.0	.0	.0	.3	.3	.0	.2	.0	.0	.7	.7
	TOT %	.2	.1	.1	.1	.4	.5	.0	.2	.0	.0	1.6	1.6
5<10	0-3	.5	*	.0	.0	.2	.2	.2	.4	.0	.1	1.6	1.6
	4-10	3.1	1.3	.9	.8	1.0	1.9	1.2	1.8	.0	.0	12.0	12.0
	11-21	2.8	1.3	.4	.8	2.0	3.0	1.5	1.3	.0	.0	13.2	13.2
	22+	.6	.1	.2	.6	1.0	2.0	.7	.5	.0	.0	5.7	5.7
	TOT %	7.0	2.7	1.5	2.3	4.3	7.1	3.6	3.9	.0	.1	32.5	32.5
10+	0-3	.5	.5	.4	.1	.1	.4	.5	.4	.0	1.3	4.2	4.2
	4-10	6.0	3.4	1.7	2.1	3.5	4.3	4.1	4.2	.0	.0	29.4	29.4
	11-21	4.4	1.2	.5	.7	4.5	5.4	4.2	3.8	.0	.0	24.7	24.7
	22+	.2	.3	.0	.2	1.4	2.7	1.2	.2	.0	.0	6.1	6.1
	TOT %	11.1	5.4	2.6	3.2	9.6	12.8	9.9	8.5	.0	1.3	64.4	64.4
TOT OBS													
TOT PCT													
		18.4	8.5	4.3	5.7	14.5	20.9	13.5	12.7	.0	1.4	100.0	1117

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 899	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	2.9	7.8	15.5	7.8	1.9	.0	.0	.0	35.9	64.1	103
06009	.0	.0	.8	7.6	12.6	10.1	4.2	.0	.0	.0	35.3	64.7	119
12015	.0	.0	2.3	7.0	10.9	7.0	.0	.0	.0	.8	28.1	71.9	128
18021	.0	.0	1.1	4.5	11.4	10.2	1.1	.0	.0	1.1	29.5	70.5	68
TOT	0	0	8	30	55	38	8	0	0	2	141	297	438
PCT	.0	.0	1.8	6.8	12.6	8.7	1.8	.0	.0	.5	32.2	67.8	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	1.0	.5	2.4	28.6	67.5	206
06009	.0	.9	.0	1.7	33.9	63.5	351
12015	.0	1.4	.7	.7	25.2	72.1	290
18021	.0	.6	1.0	1.6	40.9	55.9	913
TOT	0	11	6	18	379	746	1160
PCT	.0	.9	.5	1.6	32.7	64.3	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	3.2	12.6	27.4	60.0	95
06009	.0	.9	9.3	29.6	61.1	108
12015	.0	2.5	11.0	19.5	69.5	118
18021	.0	1.2	6.1	25.6	68.3	82
TOT	0	8	40	102	261	403
PCT	.0	2.0	9.9	25.3	64.8	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.0	.2	.0	.0	.0	.0	.0	1	.2
70/74	.0	.0	.0	.0	.2	.0	.0	.0	1	.2
65/69	.0	.0	.0	.2	.9	.7	.5	.5	16	2.9
60/64	.0	.2	.9	2.0	5.9	7.0	5.6	2.9	136	24.5
55/59	.0	.0	1.8	4.9	14.6	15.0	9.7	5.9	288	51.9
50/54	.0	.0	.2	3.1	3.2	4.7	4.5	1.3	105	18.9
45/49	.0	.0	.0	.0	.2	.9	.2	.2	8	1.4
TOTAL	0	1	17	56	150	137	114	60	595	100.0
PCT	.0	.2	3.1	10.1	27.0	28.3	20.5	10.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
75/79	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
70/74	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0
65/69	1.1	.3	.1	.1	.1	.9	.0	1.0	.0	.2
60/64	6.8	2.4	1.3	.8	1.8	2.9	4.1	4.2	.0	.2
55/59	7.0	5.0	2.9	3.2	9.1	10.6	8.4	4.5	.0	1.3
50/54	.5	.0	.5	.6	4.6	6.8	3.2	2.5	.0	.2
45/49	.0	.0	.0	.0	.2	.6	.7	.0	.0	.0
TOTAL	15.8	7.7	4.8	4.6	15.9	20.9	16.4	12.3	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	90%	5%	1%	MIN	MEAN	TOTAL OBS
00003	72	68	64	58	52	49	48	58.2	322
06009	75	68	64	58	53	49	45	58.2	459
12015	77	66	63	57	51	48	48	57.1	346
18021	70	65	62	56	50	48	47	56.0	424
TOT	77	67	63	57	51	48	45	57.3	1531

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	14.4	21.2	32.2	18.6	13.6	74	118		
06009	.0	14.6	26.8	29.9	18.3	10.4	72	164		
12015	.0	12.7	29.1	29.1	20.9	8.2	75	158		
18021	.0	11.0	30.1	20.6	25.7	12.5	75	136		
TOT	0	76	136	161	120	63	73	576		

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TABLE 17

AREA 0008 CAPE HOWE NE
36.1S 150.9EPCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	TOT	W FOG	WO FOG
11/13	.0	.0	.0	.0	.0	.0	.1	.0	1	.0	.1
9/10	.0	.0	.0	.1	.1	.0	.1	.0	3	.0	.4
7/8	.0	.0	.0	.0	.6	.1	.1	.0	8	.0	.9
6	.0	.0	.0	.1	.2	.0	.0	.0	3	.0	.4
5	.0	.0	.2	.2	.7	.5	.0	.0	14	.0	1.6
4	.0	.0	.1	1.3	1.4	.5	.0	.0	26	.2	2.8
3	.0	.1	.2	.9	2.0	.5	.0	.0	32	.0	3.8
2	.0	.0	.5	2.1	2.7	.5	.0	.0	49	.1	5.6
1	.0	.1	.8	3.1	2.2	.5	.1	.0	58	.1	6.7
0	.0	.2	1.3	6.0	3.3	.2	.0	.0	94	.1	10.9
-1	.0	.7	2.5	4.8	1.9	.1	.0	.0	82	.1	9.5
-2	.0	.8	3.2	6.4	1.1	.0	.0	.0	97	.5	11.0
-3	.0	.5	5.5	4.6	.6	.0	.0	.0	95	.5	10.7
-4	.0	.9	6.0	2.9	1.1	.0	.0	.0	93	.2	10.7
-5	.0	1.6	4.1	1.6	.4	.0	.0	.0	66	.1	7.6
-6	.1	.4	3.8	1.3	.1	.0	.0	.0	48	.0	5.6
-7/-8	.2	1.1	3.8	1.3	.2	.0	.0	.0	38	.0	6.8
-9/-10	.2	.6	.9	.0	.0	.0	.0	.0	15	.1	1.6
-11/-13	.2	.4	.2	.1	.0	.0	.0	.0	8	.0	.9
TOTAL	7		282	153		4			850	18	832
PCT	.8	7.4	33.2	37.2	18.2	2.6	.5	.1	100.0	2.1	97.9

PERIOD: (OVER-ALL) 1963-1972

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.6	.0	.0	.0	.0	.0	.6	.0	1.4	.0	.0	.0	.0	1.4
1-2	.0	3.5	1.6	.0	.0	.0	5.1	.0	2.0	.9	.0	.0	.0	2.3
3-4	.0	1.5	1.8	.0	.0	.0	3.3	.0	1.0	.2	.0	.0	.0	1.2
5-6	.0	.9	2.8	.3	.0	.0	4.1	.0	1.0	1.4	.3	.0	.0	2.7
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.6	6.0	6.3	.6	.0	.0	13.4	.0	5.4	2.2	.7	.0	.0	8.3

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1
1-2	.0	1.3	.6	.0	.0	.0	1.9	.0	2.0	.4	.0	.0	.0	2.4
3-4	.0	.3	.3	.0	.0	.0	.6	.0	1.0	.1	.0	.0	.0	1.1
5-6	.0	.0	.6	.0	.0	.0	.6	.0	.3	.1	.0	.0	.0	.4
7	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	.7	.0	.0	.7
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	.0	.2
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.3
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	1.6	1.8	.0	.0	.0	3.4	.0	3.4	.7	1.0	.1	.0	5.2

PERIOD: (OVER-ALL) 1963-1972

AUGUST

AREA 0008 CAPE HOWE NE
36.15 150.9E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.0	.3	.0	.0	.0	.0	.3	.3	.7	.0	.0	.0	.0	1.0		
1-2	.0	3.4	2.4	.0	.0	.0	5.8	.0	4.7	2.6	.0	.0	.0	7.3		
3-4	.0	1.3	3.1	.0	.0	.0	4.4	.0	2.5	3.6	.0	.0	.0	6.1		
5-6	.0	.0	1.4	.7	.0	.0	2.1	.0	.0	2.9	.3	.1	.0	3.3		
7	.0	.0	.9	.3	.0	.0	1.2	.0	.0	1.5	1.5	.3	.0	3.3		
8-9	.0	.0	.6	.0	.3	.0	.9	.0	.0	.3	.4	.0	.0	.8		
10-11	.0	.0	.0	.8	.0	.0	.8	.0	.0	.0	.6	.0	.0	.6		
12	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.1	.0	.0	.4		
13-16	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.1	.7	.0	.7		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.0	5.0	8.3	2.7	.3	.0	16.2	.3	7.9	11.0	3.3	1.5	.0	24.0		

HGT	W							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.7	1.4	.0	.0	.0	.0	2.1	.1	1.0	.0	.0	.0	.0	1.1		
1-2	.0	3.2	.5	.0	.0	.0	3.7	.0	2.6	1.1	.0	.0	.0	3.7		
3-4	.0	1.3	2.8	.3	.0	.0	4.5	.0	.3	3.3	.0	.0	.0	3.5		
5-6	.0	.3	2.1	.0	.3	.0	2.7	.0	.1	1.1	.3	.0	.0	1.5		
7	.0	.0	.7	.9	.0	.0	1.6	.0	.0	1.4	.0	.0	.0	1.4		
8-9	.0	.0	.7	.3	.0	.0	.9	.0	.0	.0	.1	.0	.0	.1		
10-11	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.3	.0	.0	.3		
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
TOT PCT	.7	6.2	6.8	1.5	.6	.0	15.8	.1	3.9	6.8	.8	.0	.0	11.6	97.9	

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	4.4	5.7	.0	.0	.0	.0	10.1	
1-2	.0	22.1	9.4	.0	.0	.0	31.5	
3-4	.0	9.1	14.8	.3	.0	.0	24.2	
5-6	.0	2.7	12.1	2.0	.3	.0	17.1	
7	.0	.0	5.0	3.4	.3	.0	8.7	
8-9	.0	.0	1.7	1.3	.3	.0	3.4	
10-11	.0	.0	.0	2.0	.3	.0	2.3	
12	.0	.0	.0	1.0	.0	.0	1.0	
13-16	.3	.0	.0	.3	.7	.0	1.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.7	39.6	43.0	10.4	2.3	.0	100.0	298

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.7	7.5	11.7	7.8	4.5	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	123	4
6-7	.0	.6	6.1	7.0	7.0	1.1	.8	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	86	6
8-9	.0	.0	2.5	5.8	5.6	3.1	2.8	1.4	.8	.6	.6	.0	.0	.0	.0	.0	.0	.0	.0	83	8
10-11	.0	.6	.8	1.4	2.2	1.7	1.4	.8	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	37	8
12-13	.0	.0	.6	.0	.6	.0	.6	.3	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10	9
>13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	
INDEX	1.7	.0	1.4	1.1	.3	.3	.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	4
TOTAL	12	31	83	83	72	24	24	12	12	2	3	1	.0	.0	.0	.0	.0	.0	.0	359	6
PCT	3.3	8.6	23.1	23.1	20.1	6.7	6.7	3.3	3.3	.6	.8	.3	.0	.0	.0	.0	.0	.0	.0	100.0	

SEPTEMBER

PERIOD: (PRIMARY) 1895-1971
(OVER-ALL) 1855-1971AREA 0008 CAPE HOWE NE
36.05 150.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	1.6	1.4	1.5	.0	.0	.0	.0	4.5	1.1	1.9	2.7	.0	4.5	.0	85.3
NE	2.8	3.7	.2	.0	.0	.0	.0	6.7	.0	2.1	3.7	.0	7.4	.0	80.2
E	.0	14.6	1.3	.0	.0	.0	1.3	17.2	.0	.0	.0	.0	1.3	.0	81.5
SE	3.7	5.9	.7	.0	.0	.0	.7	11.1	.0	1.5	1.5	.0	.0	.0	86.0
S	4.5	10.6	1.0	.0	.0	.0	.5	16.9	3.6	3.2	1.0	.0	1.2	.0	75.7
SW	7.6	8.7	2.6	.0	.0	.0	.0	18.9	2.1	5.1	3.6	.0	.9	.0	71.7
W	5.4	5.2	.4	.0	.0	.0	.0	11.0	1.4	3.6	1.6	.0	2.2	.0	80.2
NW	.0	2.6	3.7	.0	.0	.0	.0	6.3	1.1	7.6	6.3	.0	.3	.0	78.4
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0
TOT PCT	3.8	6.3	1.5	.0	.0	.0	.2	11.8	1.6	3.4	2.6	.0	2.4	.0	79.0
TOT OBS:	1021														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
0000Z	3.4	6.4	1.0	.0	.0	.0	.5	11.3	2.0	.0	1.0	.0	2.0	.0	83.7
0600Z	2.3	6.1	.5	.0	.0	.0	.3	9.0	.3	1.0	3.2	.0	3.2	.0	83.9
1201Z	6.7	5.0	.8	.0	.0	.0	.0	12.6	2.1	7.5	1.7	.0	3.5	.0	74.9
1802Z	6.4	7.7	3.1	.0	.0	.0	.0	17.2	2.1	5.2	3.4	.0	1.2	.0	71.5
TOT PCT	4.7	6.4	1.4	.0	.0	.0	.2	12.7	1.6	3.5	2.5	.0	2.4	.0	78.1
TOT OBS:	1078														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	1.1	8.4	7.2	1.5	.1	.0		18.3	11.5		18.0	18.4	14.9	21.3	17.9	22.5	18.5	14.6
NE	.2	5.2	4.8	.6	.1	.0		10.9	11.7		4.1	10.3	18.2	15.5	10.0	10.9	8.4	4.8
E	.4	2.8	.7	.3	.1	.0		4.3	10.0		4.3	4.9	4.6	6.0	2.7	5.2	3.2	3.3
SE	.8	3.5	2.2	.4	.1	.0		7.0	10.1		4.5	6.9	9.6	10.4	9.8	6.2	3.5	6.0
S	.5	5.8	7.0	3.9	.4	.3		17.9	15.7		20.0	18.0	19.4	15.4	21.5	14.9	16.5	21.1
SW	.7	4.9	7.7	3.5	.9	.3		18.0	16.7		23.2	18.2	19.7	11.4	15.8	17.8	21.1	20.5
W	.6	4.4	4.0	2.2	.6	.2		11.9	15.7		14.2	11.0	10.0	11.9	13.1	10.0	19.0	10.2
NW	.4	4.8	3.7	1.2	.0	.0		10.0	12.0		8.8	10.7	5.6	6.5	5.8	12.1	11.9	17.6
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.7							1.7	.0		.9	1.7	2.0	1.5	3.3	.5	1.9	1.8
TOT OBS	102	644	602	217	36	12	1613		13.4		111	242	251	201	120	211	311	166
TOT PCT	6.3	39.9	37.3	13.5	2.2	.7		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
		7-16	17-27	28-40	41+				00	06	12	18	21
N	4.4	10.0	3.6	.3	.0		18.3	11.5	18.3	17.8	20.8	17.1	
NE	2.1	6.9	1.6	.3	.0		10.9	11.7	8.4	17.0	10.6	7.2	
E	2.0	1.6	.4	.3	.0		4.3	10.0	4.7	5.2	4.3	3.2	
SE	2.5	3.4	.9	.2	.0		7.0	10.1	6.2	10.0	7.5	4.4	
S	2.7	7.8	5.3	1.7	.4		17.9	15.7	18.6	17.6	17.3	18.1	
SW	2.7	6.9	6.0	1.6	.7		18.0	16.7	20.4	13.8	17.1	20.9	
W	1.8	5.2	3.3	1.3	.3		11.9	15.7	12.0	10.8	11.1	13.3	
NW	2.2	5.5	2.1	.2	.0		10.0	12.0	10.1	6.0	9.8	13.9	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.7						1.7	.0	1.4	1.8	1.5	1.9	
TOT OBS	356	764	374	95	24	1613		13.4	353	452	331	477	
TOT PCT	22.1	47.4	23.2	5.9	1.5		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.4	4.5	41.1	35.4	14.4	2.0	1.1	13.7	100.0	353
06009	1.8	6.6	36.3	39.4	13.3	2.2	.4	13.2	100.0	452
12015	1.5	3.6	39.6	40.2	12.4	2.1	.6	13.3	100.0	331
18021	1.9	3.6	42.8	34.8	13.6	2.5	.8	13.4	100.0	477
TOT	27	75	644	602	217	36	12	13.4		1613
PCT	1.7	4.6	39.9	37.3	13.5	2.2	.7		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	6.6	2.8	4.4	2.6		3.9
NE	2.6	1.4	2.3	2.8		4.8
E	1.4	.3	1.3	.4		4.0
SE	3.6	.6	1.3	1.1		2.5
S	5.7	4.7	7.0	3.6		4.4
SW	7.7	4.0	8.6	1.1		3.8
W	3.9	2.0	5.0	2.1		4.4
NW	3.8	.5	2.3	.4		3.2
VAR	.0	.0	.0	.0		.0
CALM	1.0	.5	.3	.0		2.4
TOT OBS	145	67	129	57	398	4.0
TOT PCT	36.4	16.8	32.4	14.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL OBS
N	.0	.0	.0	.3	2.2	1.2	.4	.1	.0	.3	12.0	
NE	.3	.0	.0	.5	.3	1.1	.6	.3	.0	.3	6.0	
E	.0	.0	.0	.3	.3	.2	.0	.0	.0	.0	2.8	
SE	.0	.0	.0	.0	1.3	.5	.1	.0	.0	.0	4.6	
S	.0	.0	.2	1.2	3.2	2.9	.4	.0	.0	.0	13.2	
SW	.0	.0	.3	1.4	3.5	.1	.0	.4	.0	.0	15.7	
W	.0	.0	.3	.7	3.1	.3	.7	.1	.0	.0	7.9	
NW	.0	.0	.0	.0	1.2	.1	.6	.1	.0	.0	5.1	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	1.5	
TOT OBS	1	0	3	17	60	25	12	4	0	2	274	398
TOT PCT	.3	.0	.8	4.3	15.1	6.3	3.0	1.0	.0	.5	68.8	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.5	.5	.5	.5	.5	.5	.5	.5
= OR >5000	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
= OR >3500	4.0	4.3	4.5	4.5	4.5	4.5	4.5	4.5
= OR >2000	9.8	10.8	11.3	11.3	11.3	11.3	11.3	11.3
= OR >1000	21.8	25.5	26.0	26.0	26.0	26.0	26.0	26.0
= OR >600	23.8	29.5	30.3	30.3	30.3	30.3	30.3	30.3
= OR >300	24.3	30.3	31.0	31.0	31.0	31.0	31.0	31.0
= OR >150	24.3	30.3	31.0	31.0	31.0	31.0	31.0	31.0
= OR >0	24.3	30.3	31.0	31.0	31.0	31.0	31.0	31.0
TOTAL	97	121	124	124	124	124	124	124

TOTAL NUMBER OF OBS: 400

PCT FREQ NH <5/8: 68.8

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8	OBSCD	TOTAL OBS
	13.6	19.6	16.4	11.1	6.2	7.1	8.2	7.3	10.2	.2	450

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	PCP	.0	.0	.0	.1	*	.2	.0	.3	.0	.0	.7	
	NO PCP	.2	.2	.0	.1	*	.5	.1	.6	.0	.0	1.9	
	TOT %	.2	.2	.0	.2	.1	.8	.1	.9	.0	.0	2.5	
1<2	PCP	.0	.0	.0	.0	.1	.0	.1	.0	.0	.0	.2	
	NO PCP	.6	.3	*	.0	.2	*	.0	.0	.0	.0	1.3	
	TOT %	.6	.3	*	.0	.3	*	.1	.0	.0	.0	1.5	
2<5	PCP	.0	.1	.0	.1	.2	.3	.1	.0	.0	.0	.9	
	NO PCP	.2	*	.0	.1	.1	.1	.2	.0	.0	.0	.7	
	TOT %	.2	.1	.0	.2	.3	.4	.3	.0	.0	.0	1.6	
5<10	PCP	.6	.6	.5	.5	2.9	2.5	.9	.3	.0	.0	8.8	
	NO PCP	6.9	4.1	.8	1.9	5.0	4.8	3.6	4.4	.0	.0	31.5	
	TOT %	7.5	4.8	1.4	2.4	7.9	7.2	4.5	4.7	.0	.0	40.4	
10+	PCP	.2	.0	.1	.0	.1	.5	.3	.0	.0	.0	1.2	
	NO PCP	9.2	5.1	2.2	3.8	10.9	10.0	6.6	3.8	.0	.0	52.8	
	TOT %	9.4	5.1	2.3	3.8	11.0	10.6	7.2	3.8	.0	.0	54.0	
TOT OBS													1021
TOT PCT		18.0	10.7	3.7	6.6	19.7	19.0	12.2	9.3	.0	.8	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	11-21	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.1	.1	.0	.1	.0	.3	.0	.3	.0	.0	.9	.0	
	11-21	.1	.1	.0	.1	*	.2	.0	.3	.0	.0	.8	.0	
	22+	.1	.0	.0	.0	*	.2	.1	.3	.0	.0	.7	.0	
	TOT %	.3	.2	.0	.2	.1	.7	.1	.8	.0	.0	2.4	.0	
1<2	0-3	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	.0	
	4-10	.9	.2	*	.0	.1	*	.1	.0	.0	.0	.8	.0	
	11-21	.2	.1	.0	.0	.1	.0	.0	.0	.0	.0	.3	.0	
	22+	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.0	
	TOT %	.5	.3	*	.0	.4	*	.1	.0	.0	.0	1.4	.0	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	*	.2	*	.1	.1	.0	.0	.0	.4	.0	
	11-21	.2	.1	.0	*	.1	.1	.1	.0	.0	.0	.6	.0	
	22+	.0	.0	.0	.0	.1	.2	.1	.0	.0	.0	.4	.0	
	TOT %	.2	.1	*	.2	.3	.4	.3	.0	.0	.0	1.5	.0	
5<10	0-3	1.0	.1	.1	.3	.2	.2	.3	.1	.0	.0	2.3	.0	
	4-10	2.7	2.6	.9	1.3	1.5	1.1	1.0	1.5	.0	.0	12.6	.0	
	11-21	2.8	1.5	.3	.5	2.4	2.5	1.3	1.9	.0	.0	13.2	.0	
	22+	.5	.2	.0	.3	3.3	2.8	1.5	.7	.0	.0	9.1	.0	
	TOT %	7.0	4.4	1.3	2.4	7.3	6.6	4.0	4.2	.0	.0	37.2	.0	
10+	0-3	.2	.1	.3	.4	.4	.4	.2	.2	.0	1.1	3.3	.0	
	4-10	4.9	1.7	1.9	2.1	4.3	3.3	3.0	2.5	.0	.0	23.7	.0	
	11-21	4.9	3.2	.6	1.3	4.9	6.1	3.1	1.7	.0	.0	23.9	.0	
	22+	.4	.2	.0	.0	1.3	1.2	1.3	.2	.0	.0	4.6	.0	
	TOT %	10.5	5.1	2.8	3.8	10.9	11.0	7.5	4.7	.0	1.1	57.5	.0	
TOT OBS														1144
TOT PCT		18.4	10.2	4.1	6.6	19.0	18.7	12.0	9.7	.0	1.1	100.0		

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY HGT	TOTAL OBS
00003	.0	.0	.9	3.7	19.6	5.6	2.8	.9	.0	.0	33.6	66.4	107
06009	.0	.0	.0	1.0	12.0	9.0	2.0	1.0	.0	1.0	26.0	74.0	100
12015	.0	.0	.9	6.3	10.8	7.2	3.6	1.8	.0	.9	31.5	68.5	111
18021	.9	.0	.9	4.6	13.8	3.7	2.8	.0	.0	.0	26.6	73.4	109
TOT	1	0	3	17	60	27	12	4	0	2	126	301	427
PCT	.2	.0	.7	4.0	14.1	6.3	2.8	.9	.0	.5	29.5	70.5	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.0	.9	.5	1.4	34.1	63.1	214
06009	.0	2.6	1.7	2.0	42.9	50.9	352
12015	.0	1.1	2.6	1.5	34.8	60.0	270
18021	.3	3.6	1.1	1.1	42.2	51.8	365
TOT	1	27	18	18	472	665	1201
PCT	.1	2.2	1.5	1.5	39.3	55.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	.0	1.0	5.8	29.1	65.0	103
06009	.0	.0	2.1	26.6	71.3	94
12015	.0	1.0	9.9	25.7	64.4	101
18021	1.0	2.0	7.8	20.6	71.6	102
TOT	1	4	26	102	272	400
PCT	.3	1.0	6.5	25.5	68.0	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.0	.0	.0	.2	.0	.0	1	.2
75/79	.0	.0	.2	.0	.0	.0	.0	.0	1	.2
70/74	.0	.0	.0	.0	.3	.0	.3	.2	5	.8
65/69	.0	.2	.0	.7	1.7	2.4	2.2	1.4	50	8.5
60/64	.0	.2	.7	2.5	5.8	10.2	11.7	5.2	214	36.2
55/59	.0	.0	1.2	3.7	9.3	13.2	11.0	3.9	250	42.3
50/54	.0	.0	.2	1.5	3.7	2.2	2.7	1.0	67	11.3
45/49	.0	.0	.0	.0	.2	.2	.0	.2	3	.5
TOTAL	0	2	13	50	124	167	165	70	591	100.0
PCT	.0	.3	2.2	8.5	21.0	28.3	27.9	11.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.0	.0	.0	.0	.1	*	.0	.0	.0	.0
.0	.0	.0	.0	.0	*	.1	.0	.0	.0
.5	.2	.0	.0	.0	.1	.1	.0	.0	.0
2.6	1.4	.4	.0	.8	.9	.7	1.6	.0	.0
11.1	6.3	1.0	2.7	5.9	2.4	4.1	2.1	.0	.7
5.3	3.0	1.9	3.0	10.1	10.7	5.4	2.4	.0	.3
.3	.1	.0	.9	2.5	4.7	2.2	.5	.0	.2
.0	.0	.0	.0	.1	.3	.1	.0	.0	.0
19.8	11.0	3.3	6.7	19.5	19.1	12.7	6.6	.0	1.2

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	79	70	66	60	53	50	50	59.7	345
06009	78	70	67	60	53	50	49	59.9	461
12015	75	68	65	59	53	49	46	58.8	338
18021	81	67	65	57	51	49	48	57.8	489
TOT	81	69	66	59	52	50	46	59.0	1633

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	16.4	20.5	31.1	24.6	7.4	73	122
06009	.0	11.8	23.6	31.7	22.4	10.6	74	161
12015	.0	7.2	20.3	24.8	35.3	12.4	77	153
18021	.0	9.6	18.6	25.1	28.7	18.0	77	167
TOT	0	66	123	169	168	75	75	603

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	63 68	69 72	73 76	77 80	81 84	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.1	.0	.1	.0	.0	.1	3	.0	.3
9/10	.0	.0	.0	.0	.1	.2	.0	.0	.0	.0	3	.0	.3
7/8	.0	.0	.0	.3	.6	.3	.4	.1	.0	.0	17	.0	1.8
6	.0	.0	.1	.2	.1	.2	.1	.0	.0	.0	7	.0	.7
5	.0	.0	.0	.5	.6	.9	.2	.0	.0	.0	22	.0	2.3
4	.0	.0	.0	1.0	2.3	1.0	.0	.0	.0	.0	42	.2	4.1
3	.0	.0	.1	.9	1.8	.9	.1	.0	.0	.0	37	.0	3.8
2	.0	.1	.5	2.4	4.0	1.9	.0	.0	.0	.0	86	.0	8.9
1	.0	.0	1.1	2.8	4.0	1.0	.1	.0	.0	.0	88	.8	8.3
0	.0	.1	1.2	5.5	5.3	1.0	.1	.0	.0	.0	128	.8	12.4
-1	.0	.0	2.1	4.1	2.0	.3	.0	.0	.0	.0	82	.2	8.3
-2	.0	.4	2.7	4.4	3.2	.2	.0	.0	.0	.0	105	.3	10.6
-3	.0	.2	2.5	3.9	1.2	.1	.0	.0	.0	.0	77	.2	7.8
-4	.0	.5	2.5	3.9	1.2	.0	.0	.0	.0	.0	79	.0	8.2
-5	.1	.9	3.1	3.3	.2	.0	.0	.0	.0	.0	74	.0	7.7
-6	.0	.6	2.3	.8	.3	.0	.0	.0	.0	.0	39	.1	3.9
-7/-8	.1	.7	3.1	1.2	.3	.0	.0	.0	.0	.0	53	.1	5.4
-9/-10	.0	.3	1.0	.3	.0	.0	.0	.0	.0	.0	16	.0	1.7
-11/-13	.0	.2	.2	.1	.1	.0	.0	.0	.0	.0	6	.0	.6
TOTAL	2	40	218	346	266	79	11	1	0	1	964	2.8	97.2
PCT	.2	4.1	22.6	35.9	27.5	8.2	1.1	.1	.0	.1	100.0	2.8	97.2

PERIOD: (OVER-ALL) 1963-1971

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	<1	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.6	.9	.0	.0	.0	3.5	1-2	.0	1.9	.0	.0	.0	.0	1.9
3-4	.0	1.9	4.7	.0	.0	.0	6.5	3-4	.0	.0	2.0	.0	.0	.0	2.0
5-6	.0	.3	2.8	.2	.0	.0	3.4	5-6	.0	.0	3.7	.0	.0	.0	3.7
7	.0	.0	.9	.6	.0	.0	1.5	7	.0	.0	2.6	.1	.0	.0	2.7
8-9	.0	.0	.6	.0	.0	.0	.6	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.4	9.9	.9	.0	.0	16.2	TOT PCT	.3	1.7	8.6	.4	.0	.0	11.0

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.0	.0	.0	.0	.0	.0	<1	.0	.0	.0	.0	.0	.0	.0
1-2	.3	.6	.0	.0	.0	.0	1.0	1-2	.0	1.9	.0	.0	.0	.0	1.9
3-4	.0	.8	.0	.0	.0	.0	.8	3-4	.0	.1	2.1	.0	.0	.0	2.2
5-6	.0	.3	.0	.0	.0	.0	.3	5-6	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.3	.0	.0	.0	.0	.3	7	.0	.0	.1	.0	.0	.0	.1
8-9	.0	.0	.0	.0	.0	.0	.0	8-9	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	10-11	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	12	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	13-16	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	17-19	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	20-22	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	23-25	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	26-32	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	33-40	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	41-48	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	49-60	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	61-70	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	71-86	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	87+	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.3	2.1	.0	.0	.0	.0	2.4	TOT PCT	.0	2.3	3.2	.0	.0	.0	5.5

PERIOD: (OVER-ALL) 1963-1971

SEPTEMBER

AREA 0008 CAPE HOWE NZ
36.05 150.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.0	1.0	.0	.0	.0	.0		1.0	.0	.0	.0	.0	.0	.0		.0
1-2	.0	3.5	1.2	.0	.0	.0		4.7	.0	2.1	2.3	.0	.0	.0		4.4
3-4	.0	2.3	4.8	.6	.0	.0		7.7	.0	1.6	5.8	.5	.0	.0		7.9
5-6	.0	.3	2.9	2.0	.0	.0		5.2	.0	.0	5.2	.6	.0	.0		5.8
7	.0	.3	.8	1.4	.0	.0		2.5	.0	.0	1.1	.2	.0	.0		1.4
8-9	.0	.0	.6	.3	.0	.0		1.0	.0	.0	.3	.1	.0	.0		.4
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.3	.0	.0	.0		.3
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.4	.0	.0		.4
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.3	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.0	7.4	10.3	4.3	.3	.0		22.3	.0	3.7	15.2	1.8	.3	.0		21.0

HGT	W							PCT	NW							TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	.3	.0	.0	.0	.0	.0		.3	.0	.6	.0	.0	.0	.0		.6
1-2	.0	3.6	1.0	.0	.0	.0		4.6	.0	1.0	.0	.0	.0	.0		1.0
3-4	.0	1.1	1.5	.6	.0	.0		3.2	.0	1.0	1.0	.3	.0	.0		2.3
5-6	.0	.0	2.1	.6	.0	.0		2.1	.0	.0	1.0	.0	.0	.0		1.0
7	.0	.0	.2	.3	.0	.0		.6	.0	.0	.1	.0	.0	.0		.1
8-9	.0	.0	.6	1.1	.0	.0		1.7	.0	.0	.1	.1	.0	.0		.2
10-11	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
12	.0	.0	.3	.5	.0	.0		.8	.0	.0	.0	.2	.0	.0		.2
13-16	.0	.3	.0	.2	.0	.0		.6	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	.3	5.1	5.7	2.7	.0	.0		13.9	.0	2.7	2.2	.6	.0	.0		97.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	2.6	2.9	.0	.0	.0	.0	5.5	
1-2	.6	16.1	7.4	.0	.0	.0	24.2	
3-4	.0	9.4	23.5	2.3	.0	.0	35.2	
5-6	.0	1.0	17.7	2.9	.0	.0	21.6	
7	.0	.6	3.2	2.6	.0	.0	6.5	
8-9	.0	.0	2.3	1.6	.0	.0	3.9	
10-11	.0	.0	.3	.0	.0	.0	.3	
12	.0	.0	.3	.6	.3	.0	1.3	
13-16	.0	.3	.0	.6	.0	.0	1.0	
17-19	.0	.0	.3	.0	.0	.0	.3	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	3.2	30.3	55.2	10.6	.6	.0	100.0	310

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.1	8.0	11.1	8.8	2.7	1.3	.0	.5	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	128	4
6-7	.0	.8	8.2	10.1	8.5	3.4	1.9	1.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	133	6
8-9	.0	.0	.5	3.7	5.0	2.9	1.1	1.9	1.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	63	8
10-11	.0	.3	.5	.8	1.1	1.1	1.1	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	20	7
12-13	.0	.0	.3	.5	.8	.0	.5	.3	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	11	9
>13	.0	.0	.0	.0	.0	.3	.0	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	2	14
INDEX	1.9	.0	.8	1.1	.8	.3	.0	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	20	5
TOTAL	11	34	81	94	71	35	17	17	12	2	3	0	0	0	0	0	0	0	0	377	6
PCT	2.9	9.0	21.5	24.9	18.8	9.3	4.5	4.5	3.2	.5	.8	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

OCTOBER

PERIOD: (PRIMARY) 1906-1972
(OVER-ALL) 1859-1972

TABLE 1

AREA 0008 CAPE HOWE NE
36.05 150.7E

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	3.2	.8	1.9	.0	.0	.0	.0	5.9	.0	3.6	4.9	.0	5.2	.0	81.4
NE	3.6	1.9	1.7	.0	.0	.0	.0	7.1	.0	3.0	3.6	.0	4.5	.0	80.6
E	.0	2.9	.0	.0	.0	.0	.0	2.9	.0	.0	1.9	.0	7.7	.0	87.4
SE	7.2	8.5	.3	.0	.0	.0	.0	16.1	2.6	2.6	8.6	.0	.0	.0	72.8
S	5.7	6.0	3.2	.0	.0	.0	.0	14.9	1.4	1.9	2.8	.0	2.2	.0	77.5
SW	6.0	2.1	2.7	.0	.0	.0	.0	10.8	3.7	3.9	2.3	.0	2.9	.0	78.8
W	6.7	2.9	.0	.0	.0	.0	.0	9.7	6.2	8.2	.6	.0	3.5	.0	74.2
NW	.0	1.8	1.8	.0	.0	.0	.0	3.6	.5	7.7	10.9	.0	1.8	.0	75.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	25.0	.0	.0	.0	.0	75.0
TOT PCT	4.4	3.2	1.8	.0	.0	.0	.0	9.4	1.6	3.9	4.1	.0	3.4	.0	78.6
TOT OBS:	932														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATIUN TYPE								OTHER WEATHER PHENOMENA						
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT OB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	2.8	.6	.6	.0	.0	.0	.0	3.9	2.2	.6	4.5	.0	3.4	.0	86.0
06009	4.6	3.2	1.8	.0	.0	.0	.0	9.6	.7	1.4	3.9	.0	6.4	.0	78.6
12015	6.6	4.4	2.2	.0	.0	.0	.0	13.2	.4	7.0	1.3	.0	1.3	.0	78.4
18021	3.2	3.9	2.1	.0	.0	.0	.0	9.2	2.8	5.7	6.4	.0	1.8	.0	75.3
TOT PCT TOT OBS:	4.3	3.2	1.8	.0	.0	.0	.0	9.3	1.5	3.8	4.1	.0	3.3	.0	78.9

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)						
	0-3	4-10	11-21	22-33	34-47		00					03	06	09	12	15	18	21
N	1.3	9.1	7.9	2.3	.2	.0		20.7	12.1		21.5	24.3	13.9	19.8	22.6	21.2	22.2	22.6
NE	.8	6.2	5.2	1.0	.1	.0		13.3	11.4		13.6	12.9	21.5	17.1	15.6	13.2	5.2	8.7
E	.6	3.4	1.7	.2	.0	.0		6.0	9.4		6.8	7.5	8.2	6.3	4.8	5.6	3.2	5.2
SE	.5	4.7	3.1	.6	.2	.1		9.0	11.4		6.1	7.1	11.4	13.5	5.6	11.1	7.9	3.2
S	.7	7.1	7.9	3.3	.6	.2		19.9	14.8		15.2	20.2	21.6	24.5	21.1	17.7	19.6	16.0
SW	.6	3.9	5.5	3.1	1.0	.1		14.1	16.8		18.2	13.7	14.0	8.7	13.4	11.8	15.8	18.2
W	.6	2.9	3.0	1.5	.3	.0		8.3	14.5		14.0	4.6	4.6	4.5	9.4	9.1	12.8	10.6
NW	.8	3.2	1.9	.5	.1	.0		6.5	10.6		3.5	7.2	3.7	1.7	5.4	8.2	8.8	12.0
VAR	.0	.0	.0	.0	.0	.0		.0	.0		.0	.0	.0	.0	.0	.0	.0	.0
CALM	2.2							2.2	.0		.9	2.4	1.1	2.0	2.0	2.1	4.4	1.6
TOT OBS	133	669	398	207	39	5	1651		12.8		107	232	276	202	147	189	294	184
TOT PCT	8.1	40.5	36.2	12.5	2.4	.3		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	0-6	WIND SPEED (KNOTS)				41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
		7-16	17-27	28-40	00 03					06 09	12 15	18 21	
N	4.3	11.7	4.0	.7	.0		20.7	12.1	23.8	16.4	21.8	22.3	
NE	3.9	6.2	3.0	.3	.0		13.2	11.4	13.2	19.6	14.3	6.5	
E	2.2	3.0	.8	.0	.0		6.0	9.4	7.3	4.6	3.2	4.0	
SE	2.7	4.5	1.5	.2	.1		9.0	11.4	6.8	13.1	8.7	6.9	
S	3.9	8.5	5.4	1.6	.4		19.9	14.8	18.7	22.8	19.2	18.3	
SW	1.9	5.8	4.2	1.9	.2		14.1	16.8	15.0	11.8	12.5	16.7	
W	1.5	3.7	2.1	.9	.0		8.3	14.5	7.4	4.6	9.2	12.0	
NW	2.4	2.9	1.0	.2	.0		6.5	10.6	6.1	2.9	7.0	10.0	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	2.2						2.2	.0	1.9	1.5	2.1	3.3	
TOT OBS	416	764	364	95	12	1651		12.8	339	478	336	478	
TOT PCT	25.2	46.3	22.0	5.8	.7		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	WIND SPEED (KNOTS)						MEAN	PCT FREQ	TOTAL OBS
		1-3	4-10	11-21	22-33	34-47	48+			
00&03	1.9	6.7	37.6	37.6	13.9	2.2	.0	12.7	100.0	359
06&09	1.5	4.2	38.3	40.2	12.6	3.1	.2	13.5	100.0	478
12&15	2.1	4.5	36.6	41.4	13.7	1.5	.3	13.3	100.0	326
18&21	3.3	7.7	47.7	27.6	10.7	2.3	.6	11.7	100.0	478
TOT	37	96	669	598	207	99	5	12.8		1651
PCT	2.2	5.8	40.5	36.2	12.5	2.4	.3	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	8.2	2.9	5.0	3.3		3.9
NE	5.9	1.4	4.2	3.4		4.3
E	.8	1.3	1.8	1.1		5.0
SE	1.5	.8	1.9	2.4		5.2
S	5.1	4.8	6.3	5.0		4.8
SW	6.1	2.3	5.1	3.7		4.3
W	4.1	2.0	3.0	1.3		3.8
NW	1.6	.9	1.2	.6		4.1
VAR	.0	.0	.0	.0		.0
CALM	.2	.0	.2	.5		3.7
TOT OBS	144	70	123	91	428	4.4
TOT PCT	33.6	16.4	28.7	21.3	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

	000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
	149	299	599	999	1999	3499	4999	6499	7999			
N	.0	.0	.2	1.6	2.1	1.1	1.0	.0	.0	.2	13.3	
NE	.0	.5	.2	.7	1.9	.1	1.5	.0	.0	.2	9.8	
E	.0	.0	.0	.5	.6	.5	.4	.0	.0	.0	3.2	
SE	.0	.0	.0	1.1	1.5	.5	.4	.0	.0	.4	2.9	
S	.0	.0	.4	1.9	2.7	1.5	1.3	.0	.0	.6	12.5	
SW	.0	.0	.1	1.2	2.0	2.9	1.0	.0	.0	.0	10.0	
W	.0	.0	.0	.7	1.9	.2	.2	.0	.2	.0	7.1	
NW	.0	.0	.0	.0	.4	.0	.1	.0	.0	.3	3.3	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	.0	.0	.0	.0	.3	.2	.0	.0	.0	.0	.2	
TOT OBS	0	2	4	34	58	31	25	0	1	7	266	428
TOT PCT	.0	.5	.9	7.9	13.6	7.2	5.8	.0	.2	1.6	62.1	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	>10	>5	>2	>1	>1/2	>1/4	>50YD	>0
>OR >4500	1.1	1.8	1.8	1.8	1.8	1.8	1.8	1.8
>OR >3000	1.1	1.8	1.8	1.8	1.8	1.8	1.8	1.8
>OR >3500	5.7	7.6	7.8	7.8	7.8	7.8	7.8	7.8
>OR >2000	11.4	14.9	15.1	15.1	15.1	15.1	15.1	15.1
>OR >1000	21.3	27.5	28.4	28.4	28.4	28.4	28.4	28.4
>OR >800	24.9	35.0	36.2	36.4	36.4	36.4	36.4	36.4
>OR >600	25.4	35.9	37.1	37.3	37.3	37.3	37.3	37.3
>OR >400	25.9	36.4	37.5	37.8	37.8	37.8	37.8	37.8
>OR >0	25.9	36.4	37.5	37.8	37.8	37.8	37.8	37.8
TOTAL	113	159	164	165	165	165	165	165

TOTAL NUMBER OF OBS: 437

PCT FREQ NH <5/8: 62.2

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

	0	1	2	3	4	5	6	7	8 OBSCD	TOTAL OBS
	12.8	18.1	14.6	9.1	7.1	7.3	5.3	10.3	13.4	507

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	NO PCP	.1	.2	.1	.0	.1	.1	.0	.2	.0	.0	.6	
	TOT %	.1	.2	.1	.0	.1	.1	.0	.2	.0	.0	.6	
1/2<1	PCP	.0	.0	.0	.1	.1	.0	.0	.0	.0	.0	.2	
	NO PCP	.5	.3	.0	.4	.3	.2	.1	.2	.0	.0	1.9	
	TOT %	.5	.3	.0	.5	.4	.2	.1	.2	.0	.0	2.1	
1<2	PCP	.0	.1	.0	.0	.1	.2	.0	.0	.0	.0	.4	
	NO PCP	.1	.2	.1	.2	.2	.2	.2	.0	.0	.0	1.2	
	TOT %	.1	.3	.1	.2	.3	.4	.2	.0	.0	.0	1.6	
2<5	PCP	.2	.4	.0	.0	.4	.2	.1	.1	.0	.0	1.4	
	NO PCP	.4	.3	.2	.0	.0	.2	.2	.3	.0	.0	1.5	
	TOT %	.6	.7	.2	.0	.4	.4	.3	.4	.0	.0	2.9	
5<10	PCP	.8	.4	.2	1.0	2.0	1.0	.5	.1	.0	.0	9.9	
	NO PCP	6.5	4.4	1.3	3.0	6.8	3.8	2.3	2.3	.0	.6	31.0	
	TOT %	7.3	4.8	1.5	4.0	8.8	4.8	2.7	2.4	.0	.6	36.9	
10+	PCP	.2	.1	.0	.2	.5	.1	.3	.0	.0	.0	1.5	
	NO PCP	12.0	8.0	3.7	3.4	10.4	7.9	5.6	2.6	.0	.6	54.3	
	TOT %	12.3	8.1	3.7	3.6	10.9	8.0	5.9	2.6	.0	.6	55.8	
TOT OBS													
TOT PCT													
		20.8	14.4	5.6	8.2	20.9	13.9	9.1	5.9	.0	1.3	100.0	932

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	
	4-10	.1	.1	*	.0	.0	.0	.0	.0	.0	.0	.3	
	11-21	.0	.0	.0	.0	*	*	.0	.1	.0	.0	.2	
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	TOT %	.1	.1	*	.0	*	*	.0	.2	.0	.0	.6	
1/2<1	0-3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	
	4-10	.1	.1	.0	.2	.2	.1	.0	.2	.0	.0	1.0	
	11-21	.1	.0	.0	.2	.2	.1	*	.0	.0	.0	.6	
	22+	.2	.1	.0	.0	.0	.0	.0	*	.0	.0	.4	
	TOT %	.5	.3	.0	.4	.4	.2	*	.2	.0	.0	2.1	
1<2	0-3	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.3	
	4-10	.1	.0	.0	.1	.1	.0	.0	.0	.0	.0	.3	
	11-21	.1	.3	.0	*	.3	.2	.1	.0	.0	.0	1.0	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.2	.3	.1	.2	.4	.3	.2	.0	.0	.0	1.7	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.3	.3	*	.0	.0	.1	.1	.1	.0	.0	.9	
	11-21	.4	.1	.1	.0	.1	.2	.1	.2	.0	.0	1.2	
	22+	.1	.3	.0	.0	.3	*	*	*	.0	.0	.9	
	TOT %	.8	.7	.1	.0	.4	.3	.2	.4	.0	.0	3.0	
5<10	0-3	.5	.3	.1	.3	.2	*	*	.3	.0	.6	2.6	
	4-10	2.5	2.0	.7	1.6	2.9	1.2	.9	.6	.0	.0	12.4	
	11-21	2.8	1.8	.4	1.3	3.9	2.0	.6	.8	.0	.0	13.6	
	22+	1.2	.5	.1	.4	1.3	1.4	.7	.3	.0	.0	9.9	
	TOT %	6.9	4.6	1.4	3.7	8.2	4.6	2.3	2.1	.0	.6	34.6	
10+	0-3	.5	.4	.4	.2	.5	.2	.2	.2	.0	1.2	3.7	
	4-10	5.0	4.3	2.3	2.4	3.7	2.2	1.5	1.4	.0	.0	22.8	
	11-21	5.2	3.5	1.0	1.3	4.6	4.0	2.8	1.0	.0	.0	23.4	
	22+	1.6	.4	.1	.2	2.1	2.1	1.3	.3	.0	.0	8.2	
	TOT %	12.2	8.5	3.8	4.0	10.9	8.6	5.9	3.0	.0	1.2	58.1	
TOT OBS													
TOT PCT													
		20.6	14.6	5.5	8.4	20.4	14.1	8.6	5.9	.0	1.8	100.0	1085

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HR	000	150	300	600	1000	2000	3500	5000	6500	8000+	TOTAL	NH <5/8 ANY MGT	TOTAL OBS
(GMT)	149	299	599	999	1999	3499	4999	6499	7999				
00003	.0	.0	1.0	4.9	15.7	10.8	7.8	.0	.0	2.0	42.2	57.8	102
06009	.0	.7	.7	4.3	8.0	5.1	3.6	.0	.0	2.2	24.6	75.4	138
12015	.0	.0	1.5	12.8	13.5	4.5	5.3	.0	.8	1.5	39.8	60.2	133
18021	.0	1.0	.0	6.7	12.4	7.6	5.7	.0	.0	.0	33.3	66.7	105
TOT	0	2	4	35	58	32	26	0	1	7	163	313	478
PCT	.0	.4	.8	7.3	12.1	6.7	5.4	.0	.2	1.5	34.5	65.5	100.0

TABLE 11

PERCENT FREQUENCY VS BY (NH) BY HOUR

HR	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
(GMT)							
00003	1.5	1.5	1.0	3.6	23.7	68.6	194
06009	.3	1.5	2.4	4.5	38.8	52.4	330
12015	.0	1.1	.8	1.9	35.5	60.8	265
18021	1.2	3.6	1.8	2.1	38.1	53.2	333
TOT	8	23	18	34	395	644	1122
PCT	.7	2.0	1.6	3.0	35.2	57.4	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VS BY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HR	<150	<600	<1000	1000+	NH <5/8 AND 5+	TOTAL OBS
(GMT)	<50YD	<1	<5	AND 5+		
00003	.0	1.0	7.9	35.6	56.4	101
06009	.0	1.8	10.5	21.1	68.4	114
12015	.0	1.6	16.4	25.8	57.8	128
18021	.0	2.1	9.6	28.7	61.7	94
TOT	0	7	50	120	267	437
PCT	.0	1.6	11.4	27.5	61.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
70/74	.0	.0	.0	.2	.6	1.3	.0	.8	18	2.8
65/69	.0	.0	.0	.5	2.0	3.1	6.6	4.6	107	16.8
60/64	.0	.0	.2	2.4	6.8	9.6	13.3	9.9	268	42.1
55/59	.0	.0	.5	2.8	7.4	11.1	7.7	2.5	204	32.0
50/54	.0	.0	.0	.3	1.3	1.3	2.2	1.1	39	6.1
45/49	.0	.0	.0	.0	.0	.0	.2	.0	1	.2
TOTAL	0	0	4	39	119	168	191	120	637	100.0
PCT	.0	.0	.6	6.1	18.1	26.4	30.0	18.8		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
1.0	1.0	.2	.0	.0	.0	.2	.3	.0	.2
7.4	4.9	.7	.0	1.0	.4	1.1	1.0	.0	.2
10.9	7.8	2.6	5.1	6.2	3.6	2.8	2.6	.0	.5
1.1	2.0	2.2	1.5	9.4	8.6	4.5	1.8	.0	.9
.2	.0	.0	.0	2.6	2.1	.9	.3	.0	.2
.0	.0	.0	.0	.2	.0	.0	.0	.0	.0
20.5	15.7	5.8	6.6	19.3	14.7	9.4	6.0	.0	1.9

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HR	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
(GMT)									
00003	79	73	70	62	55	53	50	62.1	334
06009	77	73	68	61	55	53	50	61.5	470
12015	70	68	66	60	54	50	50	60.3	347
18021	72	70	66	59	54	51	49	59.6	490
TOT	79	72	68	61	54	51	49	60.8	1641

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HR	0-29	30-39	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
(GMT)								
00003	.0	11.2	28.8	21.6	23.2	15.2	75	125
06009	.0	7.2	21.0	30.4	28.2	13.3	77	181
12015	.0	5.2	12.6	22.4	37.4	22.4	80	174
18021	.0	4.5	13.4	29.1	29.1	24.0	80	179
TOT	0	44	120	173	197	125	78	639

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TABLE 17

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PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	63 68	69 72	73 76	TOT	W FOG	NO FOG
14/16	.0	.0	.0	.0	.2	.0	.0	2	.0	.2
11/13	.0	.0	.0	.2	.0	.2	.0	4	.1	.4
9/10	.0	.0	.0	.0	.4	.4	.2	8	.1	.8
7/8	.0	.0	.0	.4	.4	.5	.0	10	.1	1.1
6	.0	.0	.0	.2	.3	.1	.1	8	.0	.9
5	.0	.1	.1	.8	.6	.1	.1	16	.0	1.9
4	.0	.1	.5	2.3	2.0	.4	.1	45	.2	5.1
3	.0	.0	.9	1.7	1.3	.5	.1	38	.1	4.4
2	.0	.1	1.1	3.7	3.4	.4	.0	73	.2	8.4
1	.0	.1	2.3	5.3	2.7	.0	.0	88	.4	10.1
0	.1	.8	4.4	6.0	2.6	.1	.0	119	1.5	12.6
-1	.0	.9	5.1	4.1	.4	.2	.0	91	.4	10.4
-2	.0	1.9	5.6	4.0	.5	.1	.0	102	.8	11.3
-3	.2	1.9	4.3	1.7	.2	.0	.0	70	.0	8.3
-4	.0	1.5	3.2	2.1	.0	.0	.0	58	.1	6.8
-5	.4	1.5	3.0	.7	.0	.0	.0	47	.0	5.6
-6	.4	1.3	1.4	.5	.0	.0	.0	30	.0	3.6
-7/-8	.2	.9	.9	.1	.0	.0	.0	19	.0	2.3
-9/-10	.5	.7	.5	.1	.0	.0	.0	15	.0	1.8
-14/-16	.0	.1	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	15	103	280	128	25	6		844	35	809
PCT	1.8	12.2	33.2	34.0	15.2	3.0	.7	100.0	4.1	95.9

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TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.6	.0	.0	.0	.0	.6	.3	.3	.0	.0	.0	.0	.7
1-2	.2	4.4	.9	.0	.0	.0	5.6	.1	2.6	.7	.0	.0	.0	3.4
3-4	.0	2.1	2.8	.0	.0	.0	4.9	.0	.8	2.6	.0	.0	.0	3.4
5-6	.0	.0	2.8	1.1	.0	.0	3.9	.0	.0	2.1	.2	.0	.0	2.3
7	.0	.0	.2	.3	.0	.0	.6	.0	.0	.4	.0	.0	.0	.4
8-9	.0	.0	.2	.9	.0	.0	1.1	.0	.0	.7	.1	.0	.0	.8
10-11	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.8	.0	.0	.8
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	7.1	6.9	2.9	.0	.0	17.2	.4	3.8	6.6	1.1	.0	.0	11.8

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	1.0	.3	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0
1-2	.0	2.2	.3	.0	.0	.0	2.5	.0	1.6	.0	.0	.0	.0	1.6
3-4	.0	.6	.6	.0	.0	.0	1.1	.0	1.7	2.3	.0	.0	.0	4.2
5-6	.0	.3	.5	.0	.0	.0	.8	.0	.0	1.0	.0	.0	.0	1.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.3	.0	.0	.7
8-9	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	1.0	3.4	1.6	.0	.0	.0	6.2	.0	3.3	3.8	.3	.0	.0	7.4

PERIOD: (OVER-ALL) 1963-1972

OCTOBER

AREA 0008 CAPE HOWE NE
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TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							PCT	SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+		
<1	1.0	1.0	.0	.0	.0	.0		2.0	.0	.3	.3	.0	.0	.0		.7
1-2	.0	3.1	.9	.0	.0	.0		4.0	.1	3.0	1.1	.0	.0	.0		4.2
3-4	.0	2.0	4.4	.3	.0	.0		6.8	.0	1.3	4.1	.7	.0	.0		6.3
5-6	.0	.0	2.5	1.6	.0	.0		4.0	.0	.0	1.8	1.8	.0	.0		3.6
7	.0	.0	.9	.5	.0	.0		1.4	.0	.0	1.2	.6	.0	.0		1.8
8-9	.0	.0	1.2	1.3	.0	.0		2.5	.0	.0	1.1	.3	.0	.0		1.4
10-11	.0	.0	.3	.2	.0	.0		.6	.0	.0	.0	.4	.0	.0		.4
12	.0	.0	.0	.2	.2	.0		.5	.0	.0	.0	.1	.1	.0		.2
13-16	.0	.0	.0	.3	.3	.0		.7	.0	.0	.0	.0	.0	.0		.0
17-19	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0
TOT PCT	1.0	6.1	10.2	4.5	.6	.0		22.4	.1	4.8	9.6	3.9	.1	.0		18.5

HGT	W							PCT	NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+			1-3	4-10	11-21	22-33	34-47	48+			
<1	.0	.0	.0	.0	.0	.0		.0	.0	.4	.0	.0	.0	.0		.4	
1-2	.2	1.3	.3	.0	.0	.0		1.9	.0	1.4	.0	.0	.0	.0		1.4	
3-4	.0	1.3	1.6	.6	.0	.0		3.5	.0	1.1	1.0	.0	.0	.0		2.0	
5-6	.0	.0	1.6	1.2	.0	.0		2.9	.0	.0	.2	.0	.0	.0		.2	
7	.0	.0	.9	.9	.0	.0		1.4	.0	.0	.0	.0	.0	.0		.0	
8-9	.0	.0	.2	.0	.0	.0		.2	.0	.0	.2	.0	.0	.0		.2	
10-11	.0	.0	.0	.2	.3	.0		.6	.0	.0	.3	.1	.0	.0		.4	
12	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
13-16	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
17-19	.0	.0	.0	.2	.0	.0		.2	.0	.0	.0	.1	.0	.0		.1	
20-22	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
23-25	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
26-32	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
33-40	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
41-48	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
49-60	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
61-70	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
71-86	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
87+	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0		.0	
TOT PCT	.2	2.6	4.3	3.2	.3	.0		10.7	.0	2.9	1.6	.2	.0	.0		4.7	98.7

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.9	2.9	.3	.0	.0	.0	7.2	
1-2	.7	19.5	4.2	.0	.0	.0	24.4	
3-4	.0	11.1	19.5	1.6	.0	.0	32.2	
5-6	.0	.3	12.4	5.9	.0	.0	18.6	
7	.0	.0	3.6	2.6	.0	.0	6.2	
8-9	.0	.0	3.9	2.6	.0	.0	6.5	
10-11	.0	.0	.7	2.3	.3	.0	3.3	
12	.0	.0	.0	.3	.3	.0	.7	
13-16	.0	.0	.0	.3	.3	.0	.7	
17-19	.0	.0	.0	.3	.0	.0	.3	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	4.6	33.9	44.6	16.0	1.0	.0	100.0	7

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	.5	7.2	13.6	7.2	2.8	1.0	1.0	.3	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	132	4
6-7	.0	1.3	7.9	11.3	6.1	6.1	2.3	1.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	144	6
8-9	.0	.5	2.3	4.1	2.8	3.3	2.6	2.0	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	73	7
10-11	.0	.0	.8	.0	.8	1.0	.3	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	8
12-13	.0	.0	.0	.3	.3	.3	.3	.8	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9	10
>13	.0	.0	.0	.0	.3	.3	.0	.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5	11
INDET	.8	1.0	.8	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13	2
TOTAL	5	39	99	92	31	47	25	20	10	3	0	0	0	0	0	0	0	0	0	391	6
PCT	1.3	10.0	25.3	23.5	13.0	12.0	6.4	5.1	2.6	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	100.0	

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PERIOD: (PRIMARY) 1899-1971
(OVER-ALL) 1869-1971AREA 0008 CAPE HOWE NE
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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	2.5	.8	1.3	.0	.0	.0	.0	4.6	.0	6.9	6.2	.0	4.5	.0	79.1
NE	2.1	2.9	1.3	.0	.0	.0	.0	6.2	.0	2.5	9.7	.0	5.2	.0	76.6
E	3.2	5.7	1.5	.0	.0	.0	.0	9.4	1.0	3.0	6.0	.0	.5	.0	80.1
SE	8.0	2.6	3.1	.0	.0	.0	.0	13.7	.9	2.2	3.0	.0	1.1	.2	79.6
S	3.7	4.5	2.0	.0	.0	.0	.0	10.2	1.1	1.7	3.2	.0	2.0	.3	81.9
SW	4.0	5.9	2.2	.0	.0	.0	.0	12.0	4.1	2.3	1.4	.0	1.9	.0	78.8
W	5.4	3.0	.0	.0	.0	.0	.0	8.4	1.5	3.4	3.9	.0	3.4	.0	79.3
NW	6.6	2.0	6.1	.0	.0	.0	.0	14.8	2.0	6.1	6.1	.0	.5	.0	74.5
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	.0	.0	.0	90.0
TOT PCT	4.0	3.5	2.0	.0	.0	.0	.0	9.4	1.3	3.2	4.8	.0	2.6	.1	79.4
TOT OBS:	1109														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE							OTHER WEATHER PHENOMENA							NO SIG WEA
	RAIN	RAIN SHWR	ORZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGG WD PCPN	FGG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
00003	4.0	4.9	.4	.0	.0	.0	.0	9.4	2.7	.4	5.4	.0	3.6	.0	79.0
06009	5.7	1.8	1.8	.0	.0	.0	.0	9.0	.6	3.6	5.7	.0	2.7	.0	79.5
12015	3.1	3.1	2.3	.0	.0	.0	.0	8.5	1.2	6.6	2.3	.0	2.7	.4	79.2
18021	3.4	5.6	3.1	.0	.0	.0	.0	12.0	.9	3.1	6.2	.0	1.5	.0	77.2
TOT PCT	4.1	3.8	2.0	.0	.0	.0	.0	9.8	1.2	3.5	5.0	.0	2.5	.1	78.7
TOT OBS:	1139														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)							TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.9	7.4	6.3	2.3	.2	.0		17.1	12.7	16.8	20.1	12.1	20.0	12.5	21.5	17.2	14.8	
NE	1.0	7.3	5.7	.9	.1	.0		15.0	11.2	8.4	17.0	18.0	17.2	15.5	15.0	12.2	12.2	
E	.6	4.9	2.5	.3	.0	.0		8.3	9.7	12.8	7.1	9.6	9.8	10.9	7.2	7.7	4.7	
SE	.9	6.1	4.5	.8	.1	.0		12.3	11.1	7.3	11.0	19.3	18.1	12.1	10.6	6.8	10.7	
S	1.1	7.1	8.5	3.7	.5	.1		21.0	14.5	16.2	19.2	23.8	16.2	26.4	18.2	22.1	25.1	
SW	.5	3.8	6.8	3.8	.9	.0		15.8	17.4	22.8	14.0	10.8	13.6	15.4	16.1	18.9	20.9	
W	.3	1.7	1.6	.9	.3	.0		4.7	15.1	7.1	5.0	3.7	2.3	2.3	5.1	7.4	4.6	
NW	.4	1.8	1.6	.4	.1	.0		4.3	11.8	7.7	5.0	2.4	2.6	2.7	4.4	6.0	4.8	
VAR	.0	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.5							1.5	.0	.9	1.6	.3	.5	2.1	1.9	2.4	2.0	
TOT OBS	128	715	670	233	37	2	1785		13.1	113	318	294	215	140	216	299	198	
TOT PCT	7.2	40.1	37.5	13.1	2.1	.1		100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	4.1	8.0	4.0	.9	.1		17.1	12.7	19.3	15.4	18.0	16.2	
NE	3.9	7.9	2.8	.5	.0		15.0	11.2	14.7	17.7	15.2	12.2	
E	2.4	5.1	.8	.1	.0		8.3	9.7	8.6	9.6	8.6	6.5	
SE	3.0	7.1	2.0	.1	.1		12.3	11.1	10.0	18.8	11.2	8.4	
S	3.2	10.2	5.8	1.5	.2		21.0	14.5	18.4	20.6	21.4	23.3	
SW	2.1	5.0	6.1	2.4	.3		15.8	17.4	16.3	12.0	15.8	19.3	
W	1.1	1.7	1.3	.4	.2		4.7	15.1	5.6	3.1	4.0	6.3	
NW	1.2	2.1	.9	.2	.0		4.3	11.8	5.7	2.5	3.7	5.5	
VAR	.0	.0	.0	.0	.0		.0	.0	.0	.0	.0	.0	
CALM	1.5						1.5	.0	1.4	.4	2.0	2.2	
TOT OBS	400	841	422	108	14	1785		13.1	431	509	356	489	
TOT PCT	22.4	47.1	23.6	6.1	.8		100.0		100.0	100.0	100.0	100.0	

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

PERCENTAGE OF OBS											
HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS	
				11-21	22-33	34-47					
00603	1.4	6.3	37.1	39.7	13.2	2.1	.2	13.3	100.0	431	
06609	.4	5.1	36.3	40.1	15.3	2.6	.2	14.0	100.0	509	
12615	2.0	5.1	42.7	35.7	13.5	1.1	.0	12.7	100.0	358	
18621	2.2	6.3	44.6	34.4	10.2	2.2	.0	12.1	100.0	489	
TOT	26	102	715	670	233	37	2	13.1	100.0	1785	
PCT	1.5	5.7	40.1	37.5	13.1	2.1	.1				

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIRECTION					TOTAL	MEAN
WIND DIR	0-2	3-4	5-7	8 & OBSCD	OBS	CLOUD COVER
N	5.6	1.4	3.3	3.2		4.1
NE	3.9	1.6	2.9	3.4		4.8
E	2.8	.9	2.7	3.8		5.1
SE	1.5	2.6	4.4	4.4		5.7
S	5.5	4.1	7.2	5.5		4.8
SW	5.3	3.2	6.4	2.8		4.4
W	1.7	.8	1.9	.8		4.4
NW	1.5	.3	1.9	1.0		4.7
VAR	.0	.0	.0	.0		3.0
CALM	.7	.0	.0	.2		4.7
TOT OBS	126	66	135	113	440	
TOT PCT	28.6	15.0	30.7	25.7	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT.) NH >4/8
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000	150	300	600	1000	2000	3500	5000	6500	8000+	NH <5/8 ANY HGT	TOTAL OBS
149	299	599	999	1999	3499	4999	6499	7999			
.0	.0	.4	1.0	.4	1.5	.5	.2	.0	.2	9.3	
.0	.0	.1	1.3	1.8	.6	.7	.2	.0	.2	7.6	
.2	.2	.2	1.1	2.2	1.1	.2	.0	.0	.0	5.0	
.3	.1	.3	1.1	2.5	.8	.2	.3	.3	.5	6.6	
.2	.0	.2	1.9	5.4	1.0	1.0	.1	.2	.0	12.4	
.0	.1	.0	1.5	4.0	1.8	.0	.0	.0	.0	10.4	
.0	.2	.0	.5	.7	.8	.0	.2	.0	.0	2.9	
.0	.0	.0	.5	.8	.8	.0	.1	.0	.0	2.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.7	
.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	253	440
.3	2	5	39	79	37	11	5	2	.4		
.7	.5	1.1	8.9	18.0	8.4	2.5	1.1	.5	.9	57.5	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >5000	2.2	2.7	2.7	2.7	2.7	2.7	2.7	2.7
= OR >3500	4.2	5.1	5.1	5.4	5.4	5.4	5.4	5.4
= OR >2000	11.2	13.8	13.8	14.1	14.1	14.1	14.1	14.1
= OR >1000	24.6	30.6	31.5	31.7	31.7	31.7	31.7	31.7
= OR >600	28.8	37.9	40.2	40.4	40.4	40.4	40.4	40.4
= OR >300	29.2	38.8	41.3	41.5	41.5	41.5	41.5	41.5
= OR >150	29.2	38.8	41.7	42.0	42.0	42.0	42.0	42.0
= OR >0	29.7	39.3	42.4	42.6	42.6	42.6	42.6	42.6
TOTAL	133	176	190	191	191	191	191	191

TOTAL NUMBER OF OBS: 448

PCT FREQ NH <5/8: 57.4

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	DBSCD	TOTAL OBS
11.9	14.6	15.8	9.6	6.9	6.6	8.3	9.8	16.0	.4	519

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS	
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
	NO PCP	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2		
	TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2		
1/2<1	PCP	.0	.1	.0	.0	.0	.1	.0	.1	.0	.0	.3		
	NO PCP	.8	.8	.5	.4	.5	.1	.1	.3	.0	.0	3.5		
	TOT %	.8	.9	.5	.4	.5	.2	.1	.4	.0	.0	3.8		
1<2	PCP	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.2		
	NO PCP	.4	.5	*	*	.2	.1	.1	*	.0	.0	1.4		
	TOT %	.4	.5	*	*	.2	.2	.1	*	.0	.0	1.5		
2<5	PCP	.1	.1	.2	.4	.1	.3	*	.0	.0	.0	1.2		
	NO PCP	.6	.1	.0	.0	.2	.2	.2	.1	.0	.0	1.4		
	TOT %	.7	.2	.2	.4	.2	.5	.2	.1	.0	.1	2.6		
5<10	PCP	.6	.4	.5	1.2	1.5	1.1	.3	.4	.0	.0	6.0		
	NO PCP	7.6	5.5	2.7	4.7	7.5	6.1	1.8	1.7	.0	.2	37.8		
	TOT %	8.1	5.9	3.2	5.9	9.0	7.2	2.1	2.1	.0	.2	43.8		
10+	PCP	.1	.2	.2	.1	.6	.4	.0	.2	.0	.0	1.8		
	NO PCP	6.8	6.4	4.9	5.4	10.6	7.9	2.0	1.7	.0	.6	46.3		
	TOT %	6.9	6.6	5.1	5.5	11.1	8.3	2.0	1.9	.0	.6	48.1		
TOT OBS														1108
TOT PCT		17.0	14.1	9.1	12.2	21.1	16.5	4.6	4.4	.0	.9	100.0		

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	4-10	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	
	11-21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.0	.0	.0	.0	.1	.1	.0	.0	.0	.0	.2	
1/2<1	0-3	.0	.0	.0	.2	.1	.0	.0	.0	.0	.0	.2	
	4-10	.2	.6	.2	.0	.2	.1	.1	.0	.0	.0	1.4	
	11-21	.5	.2	.2	.2	.1	.1	.0	.3	.0	.0	1.6	
	22+	.1	.0	.0	.0	*	*	.0	.0	.0	.0	.2	
	TOT %	.8	.8	.5	.3	.4	.2	.1	.3	.0	.0	3.4	
1<2	0-3	.0	.1	.0	.0	.1	*	.0	.0	.0	.0	.2	
	4-10	.2	.2	*	*	.0	.0	.1	.0	.0	.0	.6	
	11-21	.1	.2	.0	*	.1	*	.0	*	.0	.0	.5	
	22+	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
	TOT %	.4	.5	*	.1	.2	.2	.1	*	.0	.0	1.4	
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	
	4-10	.1	.3	.0	.1	*	.3	.3	.0	.0	.0	.9	
	11-21	.3	.0	.1	.2	.1	.3	.0	.0	.0	.0	.9	
	22+	.3	.1	.1	.2	.2	.1	.0	.1	.0	.0	1.0	
	TOT %	.7	.3	.1	.4	.4	.6	.3	.1	.0	.1	3.0	
5<10	0-3	.4	.4	.3	.4	.1	.3	.1	.2	.0	.2	2.4	
	4-10	3.0	2.1	1.3	1.8	2.4	1.4	.5	.7	.0	.0	13.2	
	11-21	2.5	3.0	1.0	2.2	3.8	2.9	.7	.9	.0	.0	16.9	
	22+	1.7	.5	.2	.7	1.9	1.9	.5	.2	.0	.0	7.6	
	TOT %	7.6	6.0	2.8	5.1	8.1	6.4	1.9	1.8	.0	.2	40.0	
10+	0-3	.2	.5	.2	.2	.4	.1	.2	.3	.0	.8	3.0	
	4-10	3.7	3.4	3.7	4.2	3.7	2.0	.7	.9	.0	.0	22.3	
	11-21	2.9	3.4	1.4	2.2	5.1	4.7	.9	.6	.0	.0	21.2	
	22+	.4	.1	.1	.1	2.6	2.1	.2	.0	.0	.0	5.6	
	TOT %	7.2	7.4	5.5	6.7	11.8	8.9	2.0	1.8	.0	.8	52.1	
TOT OBS													1283
TOT PCT		16.6	15.0	8.9	12.6	21.0	16.4	4.3	4.1	.0	1.0	100.0	

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOUR (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY MGT	TOTAL OBS
00003	.8	.8	.0	12.7	17.8	7.6	1.7	2.5	.0	.8	44.9	55.1	118
06009	.0	.7	1.4	6.9	15.4	5.6	2.8	.7	1.4	.7	28.0	49.8	142
12015	.8	.0	2.3	8.3	15.0	9.8	2.3	.8	.0	1.5	40.6	59.4	133
18021	1.0	.0	.0	3.9	15.5	8.7	2.9	1.0	.0	.0	33.0	67.0	103
TOT	3	2	5	39	79	39	12	6	2	4	191	306	497
PCT	.6	.4	1.0	7.8	15.9	7.8	2.4	1.2	.4	.8	38.4	61.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOUR (GMT)	<1/2	1/2<1	1<2	2<3	3<10	10+	TOTAL OBS
00003	.0	4.5	.8	4.5	36.0	54.3	247
06009	.3	3.3	1.5	4.8	41.9	48.2	394
12015	.0	2.7	1.4	2.4	32.7	60.9	294
18021	.3	4.0	1.6	.8	47.4	46.0	378
TOT	2	47	18	40	529	677	1313
PCT	.2	3.6	1.4	3.0	40.3	51.6	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET, NH >4/8), BY HOUR

HOUR (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.9	1.9	18.7	31.8	49.5	107
06009	.0	2.5	11.8	31.1	57.1	119
12015	.8	3.2	12.8	31.2	56.0	125
18021	1.0	1.0	7.2	27.8	64.9	97
TOT	3	10	57	137	254	448
PCT	.7	2.2	12.7	30.6	56.7	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
75/79	.0	.2	.2	.2	.5	.2	.2	.2	9	1.4
70/74	.0	.0	.0	.0	1.0	1.8	2.1	1.1	37	5.9
65/69	.0	.0	.0	.9	2.4	5.6	10.0	5.4	152	24.2
60/64	.0	.0	.5	2.4	8.8	14.2	11.3	8.1	284	45.3
55/59	.0	.0	.2	1.4	6.1	6.7	5.9	1.6	137	21.9
50/54	.0	.0	.0	.0	.5	.2	.5	.2	8	1.3
TOTAL	0	1	5	30	120	179	188	104	627	100.0
PCT	.0	.2	.8	4.8	19.1	28.5	30.0	16.6		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
.7	.3	.2	.0	.0	.2	.2	.0	.0	.0
1.9	1.4	.0	.7	.7	.4	.2	.6	.0	.0
5.1	6.3	3.0	3.1	2.2	2.7	.9	.6	.0	.3
5.7	6.1	6.1	6.9	10.9	4.6	2.3	1.9	.0	.6
1.0	1.0	1.2	1.3	7.7	7.2	1.0	1.1	.0	.3
.0	.0	.0	.0	.3	.7	.2	.2	.0	.0
14.4	13.1	10.4	12.1	21.8	15.7	4.7	4.3	.0	1.3

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOUR (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	79	73	64	58	55	54	64.5	402
06009	80	75	71	63	57	55	52	63.6	493
12015	79	72	69	63	55	53	52	62.3	360
18021	77	73	68	62	55	52	49	62.0	497
TOT	84	75	70	63	56	53	49	63.1	1752

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	10.6	21.2	33.3	22.7	12.1	75	132		
06009	.0	3.5	22.7	29.7	30.8	13.4	77	172		
12015	.0	4.8	19.2	27.5	28.1	20.4	78	167		
18021	.0	5.9	13.6	24.3	36.1	20.1	80	169		
TOT	0	38	122	182	191	107	78	640		

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	W FOG	WD FOG
14/16	.0	.0	.0	.0	.0	.1	.1	.2	3	.0	.3
11/13	.0	.0	.0	.0	.1	.1	.2	.2	2	.0	.2
9/10	.0	.0	.0	.0	.3	.3	.2	.2	12	.2	1.0
7/8	.0	.0	.0	.1	.6	.6	.1	.1	15	.3	1.2
6	.0	.0	.1	.4	.8	.3	.3	.0	19	.1	1.8
5	.0	.0	.0	.6	.6	.9	.3	.0	24	.0	2.5
4	.0	.1	.0	1.8	1.9	1.6	.0	.0	54	.6	4.9
3	.0	.0	.3	2.1	1.6	1.5	.1	.1	57	.5	5.3
2	.0	.1	.2	2.7	4.4	1.5	.0	.0	87	.7	8.2
1	.0	.1	1.5	3.5	4.0	.7	.1	.0	96	.8	9.0
0	.0	.3	3.3	5.1	3.6	.3	.0	.0	128	.8	12.3
-1	.0	.6	3.1	5.5	1.6	.1	.0	.0	109	.7	10.4
-2	.0	.5	3.6	5.0	1.4	.0	.0	.0	104	.3	10.3
-3	.0	.3	3.4	4.1	1.0	.0	.0	.0	86	.1	8.7
-4	.0	.4	2.6	2.8	.4	.0	.0	.0	60	.2	5.9
-5	.0	.6	3.1	1.3	.3	.0	.0	.0	52	.0	5.3
-6	.0	.5	1.7	1.2	.0	.0	.0	.0	34	.1	3.4
-7/-8	.0	.6	1.5	.5	.0	.0	.0	.0	26	.0	2.7
-9/-10	.1	.1	.3	.2	.0	.0	.0	.0	7	.0	.7
-11/-13	.1	.1	.0	.0	.0	.0	.0	.0	2	.0	.2
-14/-16	.0	.1	.0	.0	.0	.0	.0	.0	1	.0	.1
TOTAL	2	44	241	362	225	86	12	6	978	5.5	94.5
PCT	.2	4.5	24.6	37.0	23.0	8.8	1.2	.6	100.0	5.5	94.5

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TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.3	1.4	.0	.0	.0	.0	1.7	.3	2.3	1.0	.0	.0	.0	3.6
1-2	.3	2.5	.7	.0	.0	.0	3.5	.3	1.4	2.2	.1	.0	.0	3.8
3-4	.0	1.3	1.8	.4	.0	.0	3.6	.0	.3	1.2	.4	.0	.0	1.9
5-6	.0	.5	1.2	.0	.0	.0	1.7	.0	.0	.7	.6	.0	.0	1.3
7	.0	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.6	4.5	5.1	1.1	.0	.0	11.3
TOT PCT	.6	5.7	4.5	1.0	.0	.0	11.9							

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	.5	.0	.0	.0	.0	.5	.0	.1	.0	.0	.0	.0	.1
1-2	.0	2.8	.3	.0	.0	.0	3.1	.3	2.3	.7	.0	.0	.0	3.3
3-4	.0	2.7	2.1	.5	.0	.0	4.8	.0	3.3	1.5	1.2	.0	.0	6.0
5-6	.0	.2	1.1	.9	.0	.0	1.9	.0	.7	.7	.1	.4	.0	1.9
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	.3
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.1	.0	.0	.4
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.3	6.4	4.4	1.4	.4	.0	12.9
TOT PCT	.0	6.2	9.5	1.4	.0	.0	11.1							

PERIOD: (OVER-ALL) 1963-1971

NOVEMBER

AREA 0008 CAPE HOWE NE
36.0S 150.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT
<1	.0	2.1	.0	.0	.0	.0	2.1	.3	.8	.0	.0	.0	.0	1.1
1-2	.0	1.3	.2	.0	.0	.0	1.5	.0	2.0	.6	.0	.0	.0	2.6
3-4	.0	1.0	2.8	.6	.0	.0	4.5	.0	2.0	1.8	.0	.0	.0	3.8
5-6	.0	.9	5.4	1.9	.4	.0	8.6	.0	.1	3.9	.4	.1	.0	4.4
7	.0	.0	.9	1.1	.3	.0	2.3	.0	.1	1.6	1.6	.0	.0	3.2
8-9	.0	.0	.2	.8	.0	.0	1.0	.0	.0	.1	.7	.0	.0	.7
10-11	.0	.0	.0	.4	.0	.0	.4	.0	.0	.6	.9	.0	.0	1.5
12	.0	.0	.0	.0	.0	.0	.2	.0	.0	.3	.0	.3	.1	.7
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.4
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	.0	.3
23-25	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.4	.0	.4
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.3	9.5	4.9	1.0	.2	20.9	.3	5.0	8.8	3.9	1.3	.1	19.3

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	
1-2	.3	.7	.6	.0	.0	.0	1.6	.6	1.0	.4	.0	.0	.0	2.0	
3-4	.0	1.5	1.3	.0	.0	.0	1.8	.0	.1	.3	.0	.0	.0	.4	
5-6	.0	.5	1.2	.0	.0	.0	1.7	.0	.1	.8	.3	.0	.0	1.2	
7	.0	.2	.8	.0	.0	.0	1.0	.0	.0	.0	.3	.0	.0	.3	
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.2	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.3	3.0	2.9	.5	.0	.0	6.7	.6	1.4	1.5	.6	.0	.0	4.1	98.2

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT
<1	2.7	5.6	.0	.0	.0	.0	8.3	085
1-2	1.8	15.0	4.4	.0	.0	.0	21.2	
3-4	.3	13.3	12.7	2.4	.0	.0	28.6	
5-6	.3	3.2	15.3	3.5	.9	.0	23.3	
7	.0	.3	5.6	4.4	.3	.0	10.6	
8-9	.0	.0	.6	1.8	.0	.0	2.4	
10-11	.0	.0	.9	1.8	.0	.0	2.7	
12	.0	.0	.3	.0	.3	.3	.9	
13-16	.0	.0	.0	.9	.0	.0	.9	
17-19	.0	.0	.0	.0	.3	.0	.3	
20-22	.0	.0	.0	.0	.3	.0	.3	
23-25	.0	.0	.0	.0	.6	.0	.6	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.0	37.5	39.8	14.7	2.7	.3	100.0	339

PERIOD: (OVER-ALL) 1949-1971

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	5.3	12.8	7.5	3.6	1.4	1.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	4
6-7	.0	.7	4.3	11.8	7.2	5.5	2.9	.5	.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	141	6
8-9	.0	.2	2.4	3.4	4.6	2.2	1.9	1.4	1.0	.7	.5	.0	.2	.0	.0	.0	.0	.0	.0	77	8
10-11	.0	.2	.7	1.2	.5	1.4	.2	.7	.7	.2	.2	.5	.0	.0	.0	.0	.0	.0	.0	28	9
12-13	.0	.0	.0	.0	.5	.5	.2	.2	.0	1.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	13	14
>13	.0	.0	.0	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	10
INDET	1.2	.5	.5	.2	.5	.0	.0	.5	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15	4
TOTAL	11	29	86	101	70	46	27	14	13	8	7	2	1	0	0	0	0	0	0	415	6
PCT	2.7	7.0	20.7	24.3	16.9	11.1	6.5	3.4	3.1	1.9	1.7	.5	.2	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1888-1970
(OVER-ALL) 1857-1970

DECEMBER

AREA 0008 CAPE HOWE NE
36.05 150.8E

TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

WIND DIR	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
N	2.4	1.4	2.2	.0	.0	.0	.0	5.9	.8	3.0	3.9	.0	6.5	.0	80.1
NE	2.2	2.2	.0	.0	.0	.0	.0	4.4	.7	3.6	3.6	.0	4.7	.0	84.9
E	5.3	3.7	3.7	.0	.0	.0	.0	12.7	1.2	5.0	3.7	.0	1.5	.0	78.3
SE	4.8	4.5	5.0	.0	.0	.0	.0	14.3	1.7	3.3	2.9	.0	1.7	.0	76.2
S	10.6	3.9	5.3	.0	.0	.0	.0	19.7	1.0	3.8	3.4	.0	.8	.0	74.3
SW	7.5	9.8	.7	.0	.0	.0	.0	18.0	2.2	6.0	2.0	.0	.2	.0	75.3
W	4.7	4.7	2.4	.0	.0	.0	.0	11.8	.0	5.9	2.4	.0	.0	.0	84.6
NW	3.9	.0	.0	.0	.0	.0	2.6	3.9	.7	3.9	7.8	.0	.0	.0	85.0
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	8.3	.0	.0	.0	.0	.0	.0	8.3	.0	.0	16.7	.0	.0	.0	75.0
TOT PCT	5.8	3.9	2.7	.0	.0	.0	.1	12.4	1.1	4.0	3.5	.0	2.4	.0	78.5
TOT OBS:	1071														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

HOUR (GMT)	PRECIPITATION TYPE						OTHER WEATHER PHENOMENA								NO SIG WEA
	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST	
0000	2.7	1.8	2.7	.0	.0	.0	.0	7.2	2.3	.5	4.5	.0	1.8	.0	84.2
0600	3.7	6.4	2.4	.0	.0	.0	.3	12.5	.9	2.4	4.6	.0	3.4	.0	77.1
1200	8.5	2.4	2.8	.0	.0	.0	.0	13.8	.4	8.5	2.4	.0	2.4	.0	75.7
1800	8.6	4.0	2.8	.0	.0	.0	.3	15.7	.9	4.9	3.4	.0	1.5	.0	76.9
TOT PCT	6.0	3.9	2.7	.0	.0	.0	.2	12.7	1.1	4.1	3.7	.0	2.3	.0	78.2
TOT OBS:	1122														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						48+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+					00	03	06	09	12	15	18	21
N	.4	6.1	8.9	1.9	.4	.0			17.4	14.0	18.1	21.1	13.3	12.9	14.7	12.8	21.4	21.7
NE	.6	7.3	7.8	1.6	.1	.0			17.3	12.5	13.1	21.5	21.4	20.3	21.0	15.9	10.8	19.9
E	.8	5.0	1.7	.3	.0	.0			7.7	9.0	8.9	7.3	8.9	11.4	9.9	7.0	4.9	5.7
SE	1.4	5.6	4.3	.7	.1	.0			12.0	10.7	4.2	10.3	15.2	15.7	15.9	15.2	9.7	7.9
S	.8	8.3	9.8	3.9	.7	.0			23.6	14.8	23.5	19.6	25.8	23.7	22.0	29.0	22.1	23.9
SW	.9	4.0	4.5	3.1	.9	.1			13.1	16.9	23.5	11.6	9.4	10.6	9.9	11.6	15.2	17.7
W	.2	1.2	1.5	.6	.1	.0			3.6	14.3	4.0	4.0	2.8	2.5	1.8	3.9	6.3	2.2
NW	.4	1.7	1.1	.1	.0	.0			3.4	10.4	4.7	3.3	2.8	1.5	2.4	3.6	4.7	3.8
VAR	.0	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	1.9								1.9	.0	.0	1.4	.4	1.0	2.4	1.0	4.9	3.3
TOT OBS	115	646	647	197	39	2	1646		13.1		101	289	294	197	126	207	288	184
TOT PCT	7.0	39.2	39.3	12.0	2.4	.1		100.0			100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					41+	TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)			
	0-6	7-16	17-27	28-40	41+					00	06	12	18
N	2.4	9.1	4.7	1.1	.1			17.4	14.0	20.3	13.2	13.5	21.6
NE	2.8	10.0	4.0	.6	.0			17.3	12.5	19.3	20.9	17.9	12.0
E	3.0	3.8	.9	.1	.0			7.7	9.0	7.7	10.0	8.1	5.2
SE	3.2	6.4	2.1	.2	.1			12.0	10.7	8.7	13.4	15.5	9.0
S	3.3	10.4	8.2	1.7	.1			23.6	14.8	20.6	24.9	26.4	22.8
SW	1.6	5.6	3.7	1.7	.5			13.1	16.9	14.7	10.0	11.0	16.2
W	.9	1.4	1.0	.2	.1			3.6	14.3	4.0	2.7	3.1	4.7
NW	1.0	1.7	.5	.1	.0			3.4	10.4	3.7	2.2	3.2	4.3
VAR	.0	.0	.0	.0	.0			.0	.0	.0	.0	.0	.0
CALM	1.9							1.9	.0	1.0	.7	1.5	4.2
TOT OBS	332	796	414	92	12	1646		13.1		390	451	333	472
TOT PCT	20.2	48.4	25.2	5.6	.7		100.0			100.0	100.0	100.0	100.0

DECEMBER

PERIOD: (PRIMARY) 1885-1970
(OVER-ALL) 1857-1970

AREA 0008 CAPE HOWE NE
36.05 150.8E

TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00603	1.0	4.1	39.7	39.7	12.8	2.3	.3	13.4	100.0	390
06609	.7	5.3	37.9	40.6	13.1	2.2	.2	13.7	100.0	451
12615	1.5	5.1	38.7	39.3	11.4	3.9	.0	13.6	100.0	333
18621	4.2	5.5	40.5	37.7	10.6	1.5	.0	12.2	100.0	472
TOT	32	83	646	647	197	39	2	13.1		1646
PCT	1.9	5.0	39.2	39.3	12.0	2.4	.1	100.0		

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBS	TOTAL OBS	MEAN CLOUD COVER
N	5.6	1.6	4.3	5.7		4.8
NE	5.4	2.1	3.7	3.3		4.1
E	1.4	1.3	3.7	3.2		5.8
SE	2.7	1.7	3.7	4.1		5.4
S	4.7	3.9	6.1	9.0		3.4
SW	3.7	3.5	4.1	1.0		4.1
W	1.4	1.8	.8	.5		3.9
NW	1.2	.5	1.2	1.0		4.5
VAR	.0	.0	.0	.0		.0
CALM	.5	.3	.3	.8		9.1
TOT OBS	100	63	104	107	374	4.9
TOT PCT	26.7	16.8	27.8	28.6	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NM >4/8)
AND OCCURRENCE OF NM <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NM <5/8 ANY HGT	TOTAL OBS
.0	.0	1.1	.9	1.2	2.3	.3	.0	.0	.5	10.9	
.3	.0	.5	1.5	1.0	.8	.0	.3	.0	.0	10.3	
.0	.0	.0	1.1	1.6	1.5	.3	.3	.0	.0	4.8	
.0	.0	.1	.9	3.3	1.1	.1	.1	.0	.3	6.4	
.3	.0	.4	3.5	4.3	1.6	.9	.2	.0	.3	12.2	
.0	.0	.0	.9	1.7	.1	.8	.3	.0	.0	8.7	
.0	.0	.0	.0	.3	.2	.3	.0	.0	.0	3.5	
.0	.0	.0	.3	.9	.5	.0	.0	.0	.3	2.1	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
.3	.0	.0	.3	.3	.0	.0	.0	.0	.0	1.1	
.3	.0	.8	35	33	30	10	4	.0	.5	224	374
.8	.0	2.1	9.4	14.7	8.0	2.7	1.1	.0	1.3	59.9	100.0

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NM >4/8) AND VSBY (NM)

CEILING (FEET)	VSBY (NM)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >50YD	= OR >0
= OR >6500	.8	1.3	1.3	1.3	1.3	1.3	1.3	1.3
= OR >5000	1.6	2.1	2.4	2.4	2.4	2.4	2.4	2.4
= OR >3500	3.2	4.7	5.0	5.0	5.0	5.0	5.0	5.0
= OR >2000	10.3	12.7	13.5	13.5	13.5	13.5	13.5	13.5
= OR >1000	21.4	27.4	28.2	28.2	28.2	28.2	28.2	28.2
= OR >600	28.0	35.9	36.7	36.9	37.2	37.2	37.2	37.2
= OR >300	29.3	38.0	38.8	39.1	39.3	39.3	39.3	39.3
= OR >150	29.3	38.0	38.8	39.1	39.3	39.3	39.3	39.3
= OR >0	29.3	38.0	39.1	39.3	39.6	39.6	40.4	40.4
TOTAL	111	144	148	149	150	150	153	153

TOTAL NUMBER OF OBS: 379

PCT FREQ NM <5/8: 59.6

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	8	OBS	TOTAL OBS
9.9	15.3	14.2	12.4	6.3	5.4	7.9	9.5	18.5	.7	444

DECEMBER

AREA 0008 CAPE HOWE NE
36.05 150.8EPERIOD. (PRIMARY) 1988-1970
(OVER-ALL) 1957-1970

TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	NO PCP	.0	.0	.0	.0	.2	.0	.0	.1	.0	.1	.4	.4
	TOT %	.0	.0	.0	.0	.2	.0	.0	.1	.0	.1	.4	.4
1/2<1	PCP	.0	.0	.0	.1	.5	.1	.0	.0	.0	.0	.7	.7
	NO PCP	.6	.3	.3	.3	.5	.2	.0	.0	.0	.0	2.2	2.9
	TOT %	.6	.3	.3	.4	.9	.3	.0	.0	.0	.0	2.9	2.9
1/2	PCP	.0	.0	.0	.0	.1	.0	.0	.1	.0	.0	.3	.3
	NO PCP	.3	.1	.0	.1	.0	.1	.0	.0	.0	.0	.7	.7
	TOT %	.3	.1	.0	.1	.1	.1	.0	.1	.0	.0	1.0	1.0
2<5	PCP	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	.3	.3
	NO PCP	.0	.3	.0	.2	.4	.1	.0	.1	.0	.1	1.2	1.5
	TOT %	.1	.3	.0	.2	.5	.1	.0	.1	.0	.1	1.5	1.5
5<10	PCP	.4	.7	.5	1.3	3.5	2.0	.4	.0	.0	.1	9.0	9.0
	NO PCP	8.2	8.7	2.8	4.2	10.1	6.1	1.4	1.7	.0	.4	43.5	43.5
	TOT %	8.7	9.3	3.3	5.5	13.6	8.1	1.8	1.7	.0	.5	52.5	52.5
10+	PCP	.5	.1	.5	.2	.6	.3	.1	.0	.0	.0	2.2	2.2
	NO PCP	6.7	6.7	3.5	4.9	8.8	4.9	2.0	1.6	.0	.5	39.5	39.5
	TOT %	7.1	6.8	3.9	5.1	9.4	5.2	2.1	1.6	.0	.5	41.7	41.7
1071													
TOT OBS													
TOT PCT		16.9	16.9	7.5	11.3	24.8	14.0	3.9	3.6	.0	1.1	100.0	

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	.2	.2
	4-10	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1	.1
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.1	.1
	22+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.3	.3
	TOT %	.0	.0	.0	.0	.2	.0	.0	.1	.0	.1	.3	.3
1/2<1	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
	4-10	.2	.1	.0	.1	.4	.0	.0	.0	.0	.0	1.0	1.0
	11-21	.4	.1	.2	.2	.3	.2	.0	.0	.0	.0	1.4	1.4
	22+	.0	.1	.0	.0	.1	.1	.0	.0	.0	.0	2.6	2.6
	TOT %	.6	.3	.2	.3	.8	.3	.0	.0	.0	.0	2.6	2.6
1/2	0-3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.2	.2
	4-10	.1	.0	.0	.0	.0	.1	.0	.1	.0	.0	.3	.3
	11-21	.0	.0	.0	.0	.1	.0	.0	.0	.0	.0	.2	.2
	22+	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	1.1	1.1
	TOT %	.3	.2	.1	.2	.1	.1	.0	.1	.0	.0	1.1	1.1
2<5	0-3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.1	.1
	4-10	.1	.2	.1	.3	.2	.1	.0	.1	.0	.0	1.1	1.1
	11-21	.0	.3	.1	.1	.3	.1	.0	.0	.0	.0	.9	.9
	22+	.1	.0	.0	.0	.2	.1	.0	.0	.0	.0	.6	.6
	TOT %	.2	.5	.2	.4	.8	.3	.0	.1	.0	.1	2.6	2.6
5<10	0-3	.0	.0	.3	.4	.4	.4	.2	.2	.0	.4	2.4	2.4
	4-10	2.3	2.9	1.8	2.6	3.3	1.5	.6	.6	.0	.0	13.6	13.6
	11-21	4.3	4.1	.8	1.9	5.5	2.6	.4	.7	.0	.0	20.2	20.2
	22+	1.2	1.4	.1	.4	3.0	2.9	.4	.0	.0	.0	9.2	9.2
	TOT %	7.8	8.3	3.0	5.3	12.2	7.3	1.5	1.5	.0	.4	47.4	47.4
10+	0-3	.2	.2	.3	.6	.1	.1	.0	.0	.0	.9	2.3	2.3
	4-10	2.9	3.3	3.3	3.3	4.4	2.1	.6	.9	.0	.0	20.8	20.8
	11-21	3.9	3.5	.9	2.0	3.8	2.4	1.2	.7	.0	.0	18.5	18.5
	22+	.4	.1	.0	.2	2.0	1.1	.3	.1	.0	.0	4.3	4.3
	TOT %	7.4	7.2	4.4	6.1	10.4	5.7	2.1	1.7	.0	.9	45.9	45.9
1235													
TOT OBS													
TOT PCT		16.3	16.5	8.0	12.5	24.4	13.7	3.7	3.5	.0	1.5	100.0	

DECEMBER

PERIOD: (PRIMARY) 1888-1970
(OVER-ALL) 1857-1970

AREA 0008 CAPE HOWE NE
36.05 150.8E

TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET, NM >4/8) AND
OCCURRENCE OF NM <5/8 BY HOUR

HOURL (GMT)	000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NM <5/8 ANY MGT	TOTAL OBS
00003	1.0	.0	1.0	9.1	7.1	6.1	3.0	1.0	.0	2.0	30.3	69.7	99
06009	1.0	.0	1.0	6.7	10.5	4.8	2.9	1.9	.0	1.0	29.5	70.5	105
12015	1.8	.0	2.7	10.6	16.8	10.6	.9	.9	.0	.0	44.2	55.8	113
18021	.0	.0	3.2	7.4	20.0	9.5	3.2	.0	.0	2.1	45.3	54.7	95
TOT	4	0	8	35	56	32	10	4	0	5	154	258	412
PCT	1.0	.0	1.9	8.5	13.6	7.8	2.4	1.0	.0	1.2	37.4	62.6	100.0

TABLE 11

PERCENT FREQUENCY VSBY (NM) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.8	2.9	.8	1.7	44.4	49.4	239
06009	.5	3.4	1.1	2.4	50.1	42.4	377
12015	.4	.7	.7	3.2	45.4	49.6	284
18021	.3	2.8	1.6	2.8	51.6	40.9	386
TOT	6	33	14	33	623	577	1286
PCT	.5	2.6	1.1	2.6	48.4	44.9	100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NM) AND/OR
CEILING HGT (FEET, NM >4/8) BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NM <5/8 AND 5+	TOTAL OBS
00003	1.1	2.2	12.9	20.4	66.7	93
06009	1.1	3.2	10.5	22.1	67.4	95
12015	1.9	4.8	17.3	30.8	51.9	104
18021	.0	3.4	12.6	36.8	50.6	87
TOT	4	13	51	104	224	379
PCT	1.1	3.4	13.5	27.4	59.1	100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
80/84	.0	.0	.2	.0	.0	.0	.0	.0	1	.2
75/79	.0	.0	.0	.0	.0	.6	.0	.2	4	.7
70/74	.0	.0	.2	.0	1.7	3.1	6.1	2.8	75	13.9
65/69	.0	.0	.0	1.5	4.8	10.2	12.2	10.0	209	38.7
60/64	.0	.0	.2	3.3	8.9	10.4	8.5	5.2	197	36.5
55/59	.0	.0	.0	.6	2.4	3.3	2.4	1.1	53	9.8
50/54	.0	.0	.0	.0	.0	.2	.0	.0	1	.2
TOTAL	0	0	3	29	96	150	158	104	540	100.0
PCT	.0	.0	.6	5.4	17.8	27.8	29.3	19.3		

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

	N	NE	E	SE	S	SW	W	NW	VAR	CALM
80/84	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0
75/79	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0
70/74	5.9	4.3	.7	.7	.7	.8	.0	.5	.0	.2
65/69	8.8	0.9	4.0	2.8	6.1	2.4	.9	1.7	.0	1.3
60/64	2.5	2.7	3.8	5.4	12.0	6.9	2.1	.8	.0	.4
55/59	.1	.2	.7	1.7	3.1	2.1	1.6	.2	.0	.2
50/54	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0
TOTAL	17.7	16.4	9.1	10.6	23.9	12.3	4.8	3.2	.0	2.0

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	80	77	74	67	60	58	55	67.0	373
06009	82	75	72	66	60	58	56	66.1	449
12015	74	72	71	64	58	55	51	64.6	340
18021	76	73	71	64	58	55	54	64.5	485
TOT	82	75	72	65	59	56	51	65.5	1647

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOUR (GMT)	0-29	30-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	13.6	20.0	31.2	20.8	14.4	74	125
06009	.0	5.8	23.9	26.1	37.0	7.2	76	138
12015	.0	1.4	15.1	25.9	30.9	26.6	81	139
18021	.0	4.0	12.1	27.5	28.2	28.2	81	149
TOT	0	33	97	152	162	107	78	551

DECEMBER

PERIOD: (PRIMARY) 1888-1970
(OVER-ALL) 1857-1970

AREA 0008 CAPE HOWE NE
36.05 150.8E

TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	53 56	57 60	61 64	65 68	69 72	73 76	77 80	TOT	N FOG	NO FOG
11/13	.0	.0	.0	.0	.1	.0	.1	2	.0	.2
9/10	.0	.0	.0	.1	.1	.1	.0	3	.1	.2
7/8	.0	.0	.0	.4	.7	.2	.1	14	.1	1.3
6	.0	.0	.0	.4	.4	.8	.1	17	.1	1.6
5	.0	.0	.0	.4	1.1	1.1	.0	26	.2	2.4
4	.0	.0	.8	1.0	1.7	.5	.0	40	.2	3.8
3	.0	.0	.3	1.7	2.6	.6	.0	52	.5	4.7
2	.0	.1	1.4	2.9	3.8	.3	.0	85	.2	8.3
1	.0	.2	2.0	4.7	3.9	.2	.0	110	.8	10.2
0	.0	.5	2.1	6.0	4.0	.1	.0	127	.3	12.4
-1	.1	.8	3.3	4.5	1.7	.1	.0	105	.2	10.3
-2	.0	1.5	5.2	3.8	.8	.0	.0	113	.4	10.9
-3	.0	1.9	5.0	3.0	.4	.0	.0	103	.2	10.1
-4	.2	1.7	4.5	1.7	.1	.0	.0	82	.2	8.0
-5	.0	1.0	2.5	.7	.0	.0	.0	42	.1	4.1
-6	.2	.6	1.9	.2	.0	.0	.0	29	.1	2.8
-7/-8	.0	1.1	2.0	.3	.0	.0	.0	34	.3	3.1
-9/-10	.1	.5	.6	.0	.0	.0	.0	12	.0	1.2
-11/-13	.0	.2	.0	.0	.0	.0	.0	2	.0	.2
TOTAL	6	101	316	318	214	40	3	998	4.0	96.0
PCT	.6	10.1	31.7	31.9	21.4	4.0	.3	100.0	4.0	96.0

PERIOD: (OVER-ALL) 1963-1970

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.4	1.4	.0	.0	.0	.0	1.7	.0	.2	.0	.0	.0	.0	.2
1-2	.0	1.3	.9	.0	.0	.0	2.2	.4	4.0	2.4	.0	.0	.0	6.8
3-4	.0	2.4	4.3	.4	.0	.0	7.0	.0	1.5	4.6	.0	.0	.0	6.0
5-6	.0	1.1	4.5	.0	.0	.0	5.6	.0	.4	1.1	.0	.0	.0	1.5
7	.0	.0	.4	.4	.3	.0	1.0	.0	.4	.4	.0	.0	.0	.7
8-9	.0	.0	.0	.4	.0	.0	.4	.0	.0	.0	.1	.0	.0	.1
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	6.1	10.0	1.1	.3	.0	17.9	.4	6.4	8.4	.1	.0	.0	15.2

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.0	1.4	.0	.0	.0	.0	1.4	.0	1.3	.4	.0	.0	.0	1.6
1-2	.0	1.6	.4	.0	.0	.0	2.0	.4	2.0	.7	.0	.0	.0	3.1
3-4	.0	2.1	.7	.0	.0	.0	2.8	.4	2.2	1.9	.0	.0	.0	4.5
5-6	.0	.4	.0	.0	.0	.0	.4	.0	.0	1.1	.2	.0	.0	1.3
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8-9	.0	.0	.0	.3	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.5
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.0	5.5	1.1	.3	.0	.0	6.8	.7	5.5	4.6	.4	.0	.0	11.1

PERIOD: (OVER-ALL) 1963-1970

DECEMBER

AREA 0008 CAPE HOWE NE
36.05 150.8E

TABLE 18 (CONT)

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	1.9	.0	.0	.0	.0	1.9	.0	.5	.0	.0	.0	.0	.5	
1-2	.0	3.2	.4	.0	.0	.0	3.6	.0	1.7	1.2	.0	.0	.0	2.9	
3-4	.0	2.9	2.4	1.0	.0	.0	6.3	.0	2.7	.9	.1	.0	.0	3.7	
5-6	.0	.7	2.6	2.9	.4	.0	6.6	.0	.4	1.1	.6	.4	.0	2.5	
7	.0	.0	.7	.7	.0	.0	1.5	.0	.0	1.5	.4	.0	.0	1.8	
8-9	.0	.0	.0	.6	.6	.0	1.3	.0	.0	.4	.5	.1	.0	.9	
10-11	.0	.3	.6	.0	.0	.0	.9	.0	.1	.4	.7	.0	.0	1.2	
12	.0	.0	.0	.6	.0	.0	.6	.0	.0	.0	.4	.0	.0	.4	
13-16	.0	.0	.0	.5	.0	.0	.5	.0	.0	.0	.1	.0	.0	.1	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	9.0	6.7	6.5	1.0	.0	23.2	.0	5.4	5.4	2.7	.5	.0	14.0	

HGT	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	TOTAL PCT
<1	.0	.4	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	
1-2	.0	.0	.6	.0	.0	.0	.6	.0	.7	.0	.0	.0	.0	.7	
3-4	.0	.6	1.0	.0	.0	.0	1.6	.0	.2	1.0	.0	.0	.0	1.2	
5-6	.0	.7	.7	1.0	.0	.0	2.5	.0	1.1	.3	.0	.0	.0	1.4	
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	.0	.1	
8-9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
10-11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.4	
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	.0	1.7	2.4	1.0	.0	.0	5.1	.0	2.0	1.3	.4	.1	.0	3.7	97.1

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.3	6.9	.4	.0	.0	.0	10.5	
1-2	1.1	14.5	6.5	.0	.0	.0	22.1	
3-4	.4	14.5	16.7	1.4	.0	.0	33.0	
5-6	.0	4.7	11.2	4.7	.7	.0	21.4	
7	.4	.4	2.9	1.4	.4	.0	5.4	
8-9	.0	.0	.4	1.8	.7	.0	2.9	
10-11	.0	.4	1.4	1.1	.0	.0	2.9	
12	.0	.0	.0	1.1	.0	.0	1.1	
13-16	.0	.0	.0	.7	.0	.0	.7	
17-19	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	
TOT PCT	5.1	41.3	39.5	12.3	1.8	.0	100.0	276

PERIOD: (OVER-ALL) 1949-1970

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.6	6.7	11.8	4.6	4.0	1.3	.8	.5	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	118	4
6-7	.0	.8	9.1	13.7	8.6	2.2	.5	1.3	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	139	6
8-9	.0	.5	1.6	4.0	3.8	2.4	1.6	1.3	1.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	65	8
10-11	.0	.0	.8	.5	.8	2.4	.5	.0	.0	.5	.3	.3	.0	.0	.0	.0	.0	.0	.0	23	9
12-13	.0	.0	.5	.0	.5	.0	.3	.5	.8	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	11	10
>13	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2	5
INDET	1.6	.3	.8	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	14	3
TOTAL	12	31	92	89	66	33	14	14	13	5	2	1	0	0	0	0	0	0	0	372	6
PCT	3.2	8.3	24.7	23.9	17.7	8.9	3.8	3.8	3.5	1.3	.5	.3	.0	.0	.0	.0	.0	.0	.0	100.0	

PERIOD: (PRIMARY) 1888-1973
(OVER-ALL) 1855-1973

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TABLE 1

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY WIND DIRECTION

PERCENT FREQUENCY OF WEATHER															
PRECIPITATION TYPE								OTHER WEATHER PHENOMENA							
WIND DIR	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THDR LTNG	FGD WD PCPN	FGD WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
N	2.2	1.6	1.0	.0	.0	.0	.0	4.8	.8	3.5	3.9	.0	4.0	*	83.7
NE	3.6	3.1	1.6	.0	.0	.0	*	8.3	1.3	2.8	3.1	.0	2.9	.0	82.6
E	5.6	6.3	2.4	.0	.0	.0	.1	14.3	1.1	1.8	2.5	.0	1.1	.0	79.9
SE	5.5	7.7	2.4	.0	.0	.0	.2	15.7	2.4	1.9	2.5	.0	.9	*	76.9
S	6.0	7.6	2.0	.0	.0	.0	.1	15.5	2.4	2.4	1.6	.0	1.1	*	78.2
SW	5.6	8.2	1.9	.0	.0	.0	.2	15.9	2.3	3.7	1.6	.0	.8	.0	77.3
W	4.5	4.6	1.0	.0	.0	.0	.0	9.9	2.0	4.5	2.3	.0	1.1	.0	81.2
NW	2.5	1.8	1.2	.0	.0	.0	.2	5.5	.8	5.0	4.0	.0	.7	.0	84.9
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	3.6	.7	.0	.0	.0	.0	.0	4.3	.0	3.3	3.3	.0	3.5	.0	85.6
TOT PCT	4.4	5.1	1.6	.0	.0	.0	.1	11.1	1.6	3.2	2.5	.0	1.8	*	80.7
TOT OBS:	12938														

TABLE 2

PERCENT FREQUENCY OF WEATHER OCCURRENCE BY HOUR

PRECIPITATION TYPE										OTHER WEATHER PHENOMENA					
HOURL (GMT)	RAIN	RAIN SHWR	DRZL	FRZG PCPN	SNOW	OTHER FRZN PCPN	HAIL	PCPN AT DB TIME	PCPN PAST HOUR	THOR LTNG	FOG WD PCPN	FOG WD PCPN PAST HR	SMOKE HAZE	SPRAY BLWG DUST BLWG SNOW	NO SIG WEA
00003	3.6	4.6	1.3	.0	.0	.0	.1	9.5	1.7	.2	2.4	.0	2.1	.0	84.3
06009	4.9	5.3	1.3	.0	.0	.0	.2	10.9	1.3	2.1	2.8	.0	2.4	*	81.5
12015	5.2	4.2	1.7	.0	.0	.0	.1	11.0	2.0	6.3	1.7	.0	1.6	*	79.0
18021	5.0	6.2	1.9	.0	.0	.0	.1	13.1	1.5	4.2	3.3	.0	1.1	.0	77.9
TOT PCT	4.5	5.2	1.6	.0	.0	.0	.1	11.3	1.6	3.3	2.6	.0	1.8	*	80.4
TOT OBS:	13463														

TABLE 3

PERCENTAGE FREQUENCY OF WIND DIRECTION BY SPEED AND BY HOUR

WIND DIR	WIND SPEED (KNOTS)						TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)							
	0-3	4-10	11-21	22-33	34-47	48+				00	03	06	09	12	15	18	21
N	1.0	7.0	6.6	1.4	.2	*	16.2	12.2	15.8	17.6	14.0	16.3	16.2	17.6	16.3	19.5	
NE	.8	5.9	4.9	1.0	.1	*	12.7	11.4	8.8	12.4	16.8	17.5	14.2	12.7	9.2	8.3	
E	.6	3.8	1.7	.4	.1	*	6.6	10.3	5.7	6.4	8.1	8.3	6.7	6.6	5.5	4.9	
SE	.7	4.5	3.3	.8	.2	*	9.4	12.0	5.5	6.2	11.6	12.8	9.7	10.4	7.4	8.5	
S	.8	6.4	8.0	3.2	.7	.2	19.3	15.1	20.1	18.4	21.7	19.1	21.1	17.7	18.1	20.1	
SW	.5	5.1	6.4	3.8	1.1	.2	17.1	16.9	23.7	17.2	15.3	12.5	15.7	15.4	19.3	20.2	
W	.6	3.4	3.3	1.4	.4	.1	9.1	14.5	10.9	9.0	6.3	6.7	8.5	9.2	12.4	9.9	
NW	.6	3.7	2.6	.6	.1	*	7.6	11.4	7.9	9.1	4.9	4.9	5.5	8.4	9.1	10.8	
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
CALM	1.9						1.9	.0	1.6	1.8	1.3	1.9	2.4	1.9	2.7	1.8	
TOT OBS							20393	13.3	1298	3244	3227	2491	1708	2551	3617	2257	
TOT PCT	7.4	39.7	36.9	12.6	2.8	.5	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	

TABLE 3A

WIND DIR	WIND SPEED (KNOTS)					TOTAL OBS	PCT FREQ	MEAN SPD	HOUR (GMT)				
	0-6	7-16	17-27	28-40	41+				00	06	12	18	21
N	3.6	8.6	3.4	.5	.1	16.2	12.2	17.0	15.0	17.1	16.0		
NE	3.1	6.7	2.4	.4	.1	11.5	11.4	11.5	17.1	13.3	8.9		
E	2.4	3.1	.8	.2	.1	6.6	10.3	6.2	8.2	6.7	5.3		
SE	2.4	4.9	1.7	.3	.1	9.4	12.0	7.5	12.2	10.1	7.8		
S	3.1	8.7	5.5	1.6	.4	19.3	15.1	18.8	20.6	19.0	18.9		
SW	2.4	6.6	5.3	2.2	.5	17.1	16.9	19.0	14.1	15.5	19.7		
W	1.9	3.9	2.4	.8	.2	9.1	14.5	9.6	6.4	8.9	11.4		
NW	2.1	3.8	1.3	.3	.0	7.6	11.4	8.7	4.9	7.3	9.7		
VAR	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
CALM	1.9					1.9	.0	1.7	1.6	2.1	2.4		
TOT OBS						20393	13.3	4542	5718	4259	5874		
TOT PCT	23.0	46.4	22.9	6.2	1.4	100.0		100.0	100.0	100.0	100.0		

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PERIOD: (PRIMARY) 1888-1973
(OVER-ALL) 1855-1973

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TABLE 4

PERCENTAGE FREQUENCY OF WIND SPEED BY HOUR (GMT)

HOUR	CALM	1-3	4-10	WIND SPEED (KNOTS)			48+	MEAN	PCT FREQ	TOTAL OBS
				11-21	22-33	34-47				
00003	1.7	6.1	38.3	36.0	14.0	3.1	.7	13.6	100.0	4542
06009	1.6	5.4	38.2	38.5	13.0	2.9	.5	13.6	100.0	5718
12015	2.1	4.9	40.1	38.3	11.7	2.6	.4	12.1	100.0	4259
18021	2.4	5.7	42.0	34.8	11.8	2.8	.6	12.9	100.0	5874
TOT								13.3		20393
PCT	1.9	5.5	39.7	36.9	12.6	2.8	.5		100.0	

TABLE 5

PCT FREQ OF TOTAL CLOUD AMOUNT (EIGHTHS)
BY WIND DIRECTION

WIND DIR	0-2	3-4	5-7	8 & OBSCD	TOTAL OBS	MEAN CLOUD COVER
N	7.0	2.2	3.5	2.3		3.5
NE	5.1	1.8	3.0	2.2		3.9
E	1.6	1.0	2.1	1.8		4.9
SE	1.9	1.3	3.0	2.4		5.1
S	5.1	3.8	7.0	5.4		4.9
SW	6.1	3.8	6.8	2.6		4.3
W	3.7	2.0	2.5	1.0		4.0
NW	3.0	.9	1.7	.6		3.4
VAR	.0	.0	.0	.0		.0
CALM	.8	.3	.4	.4		3.7
TOT OBS					5051	4.2
TOT PCT	34.4	16.9	29.8	18.8	100.0	

TABLE 6

PERCENTAGE FREQUENCY OF CEILING HEIGHTS (FT, NH >4/8)
AND OCCURRENCE OF NH <5/8 BY WIND DIRECTION

000 149	150 299	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	NH <5/8 ANY HGT	TOTAL D85
*	*	.2	.7	1.2	1.0	.5	.1	.1	.1	11.1	
*	*	.2	.6	1.3	.7	.3	.1	*	*	8.7	
*	*	.1	.6	1.1	.7	.2	.1	.0	*	3.6	
*	*	.1	.9	1.9	.8	.4	.1	*	*	4.2	
.1	*	.3	2.3	4.3	2.0	.8	.2	.1	.1	11.2	
*	*	.4	1.4	2.8	1.7	.8	.1	*	*	12.1	
*	*	.1	.5	1.3	.4	.2	.1	*	.1	6.6	
.0	.0	*	.2	.6	.4	.1	.1	.0	.2	4.7	
.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
*	.0	*	.1	.3	.1	*	.0	.0	*	1.2	
.3	.1	1.3	7.3	14.4	7.7	3.3	.7	.3	.7	63.5	
										5051 100.0	

TABLE 7

CUMULATIVE PCT FREQ OF SIMULTANEOUS OCCURRENCE
OF CEILING HEIGHT (NH >4/8) AND VSBY (NH)

CEILING (FEET)	VSBY (NH)							
	= OR >10	= OR >5	= OR >2	= OR >1	= OR >1/2	= OR >1/4	= OR >30YD	= OR >0
= OR >4500	.8	1.0	1.0	1.0	1.0	1.0	1.0	1.0
= OR >4000	1.4	1.7	1.7	1.7	1.7	1.7	1.7	1.7
= OR >3500	4.2	4.8	5.0	5.0	5.0	5.0	5.0	5.0
= OR >3000	10.6	12.3	12.7	12.7	12.7	12.7	12.7	12.8
= OR >2000	21.8	26.7	27.4	27.5	27.5	27.5	27.5	27.5
= OR >1000	26.1	33.2	34.4	34.7	34.7	34.7	34.7	34.7
= OR >400	26.6	34.3	35.6	35.9	36.0	36.0	36.0	36.0
= OR >150	26.7	34.4	35.8	36.1	36.1	36.2	36.2	36.2
= OR >0	26.8	34.5	35.9	36.3	36.3	36.4	36.5	36.5

TOTAL NUMBER OF OBS: 5156

PCT FREQ NH <5/8: 63.5

TABLE 7A

PERCENTAGE FREQ OF LOW CLOUDS (EIGHTHS)

0	1	2	3	4	5	6	7	# OBSCD	TOTAL OBS
13.8	17.6	14.2	10.3	7.1	7.1	7.8	8.7	13.2	.2
									6037

PERIOD: (PRIMARY) 1888-1973
(OVER-ALL) 1855-1973

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TABLE 8

PERCENT FREQ OF WIND DIRECTION VS OCCURRENCE OR NON-OCCURRENCE OF
PRECIPITATION WITH VARYING VALUES OF VISIBILITY

VSBY (NM)		N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	PCP	*	.0	.0	*	*	*	.0	*	.0	.0	.1	
	NO PCP	*	*	*	*	*	*	.0	*	.0	.0	.2	
	TOT %	*	*	*	*	*	*	.0	*	.0	.0	.2	
1/2<1	PCP	*	*	*	*	.1	.1	*	*	.0	.0	.4	
	NO PCP	.5	.3	.1	.1	.2	.2	.1	.1	.0	.0	1.5	
	TOT %	.5	.3	.1	.2	.3	.3	.1	.2	.0	.0	1.9	
1<2	PCP	*	*	*	*	.1	.1	*	*	.0	.0	.3	
	NO PCP	.3	.2	.1	.1	.1	.1	*	*	.0	.0	.9	
	TOT %	.3	.2	.1	.1	.2	.2	.1	*	.0	.0	1.2	
2<5	PCP	.1	.1	.1	.1	.3	.2	.1	*	.0	.0	.9	
	NO PCP	.2	.2	.1	.1	.2	.1	.1	.1	.0	.0	1.1	
	TOT %	.3	.3	.2	.2	.4	.3	.1	.1	.0	.0	2.0	
5<10	PCP	.5	.6	.5	.9	2.1	2.0	.6	.3	.0	.0	7.5	
	NO PCP	6.2	4.9	2.1	3.2	6.5	5.3	3.2	2.9	.0	.3	34.5	
	TOT %	6.6	5.5	2.6	4.1	8.6	7.3	3.8	3.2	.0	.3	42.0	
10+	PCP	.2	.2	.2	.2	.5	.5	.1	*	.0	.0	1.9	
	NO PCP	8.2	6.0	3.3	4.2	9.9	9.3	5.1	3.9	.0	.8	50.8	
	TOT %	8.4	6.2	3.5	4.5	10.4	9.8	5.2	3.9	.0	.8	52.7	
TOT OBS													
TOT PCT		16.2	12.5	6.5	9.1	20.0	17.9	9.3	7.4	.0	1.2	100.0	12935

TABLE 9

PERCENT FREQ OF WIND DIRECTION VS WIND SPEED
WITH VARYING VALUES OF VISIBILITY

VSBY (NM)	SPD KTS	N	NE	E	SE	S	SW	W	NW	VAR	CALM	PCT	TOTAL OBS
<1/2	0-3	*	.0	.0	.0	*	.0	*	*	.0	*	*	
	4-10	*	*	*	*	*	.0	*	*	.0	*	*	
	11-21	.0	*	.0	*	*	*	.0	*	.0	*	.1	
	22+	.0	.0	.0	*	.0	*	.0	*	.0	*	.1	
	TOT %	*	*	*	*	.1	*	.0	.0	.0	*	.2	
1/2<1	0-3	*	*	*	*	*	.0	*	*	.0	.0	.1	
	4-10	.1	.1	*	*	.1	.1	*	*	.0	.0	.6	
	11-21	.2	.1	*	.1	.1	.1	*	.1	.0	.0	.7	
	22+	.1	*	*	*	.1	.1	*	*	.0	.0	.3	
	TOT %	.5	.3	.1	.2	.3	.3	.1	.1	.0	.0	1.7	
1<2	0-3	*	*	*	*	*	*	*	.0	.0	*	.1	
	4-10	.1	.1	*	.1	.1	*	*	*	.0	*	.4	
	11-21	.2	.1	*	.1	.1	.1	*	*	.0	*	.5	
	22+	*	*	*	.1	.1	.1	*	*	.0	*	.3	
	TOT %	.3	.2	.1	.2	.2	.2	.1	*	.0	*	1.3	
2<5	0-3	*	*	*	*	*	*	.0	*	.0	*	.1	
	4-10	.1	.1	.1	.1	.1	.1	.1	*	.0	*	.8	
	11-21	.2	.1	.1	.1	.2	.1	*	*	.0	*	.8	
	22+	.1	.1	.1	.1	.3	.2	*	*	.0	*	.8	
	TOT %	.4	.3	.2	.3	.5	.4	.1	.1	.0	*	2.5	
5<10	0-3	.4	.3	.2	.3	.3	.2	.2	.2	.0	.3	2.4	
	4-10	2.2	2.0	1.3	1.6	2.1	1.6	1.1	1.2	.0	*	13.1	
	11-21	2.6	2.3	.7	1.4	3.4	2.5	1.1	1.0	.0	*	15.1	
	22+	.8	.5	.2	.5	2.1	2.4	.9	.4	.0	*	7.9	
	TOT %	6.1	5.1	2.4	3.9	7.9	6.6	3.4	2.8	.0	.3	38.5	
10+	0-3	.4	.4	.3	.3	.4	.3	.3	.3	.0	1.2	4.0	
	4-10	4.1	3.4	2.5	2.8	4.0	3.2	2.1	2.2	.0	*	24.2	
	11-21	3.7	2.6	.8	1.6	4.7	4.3	2.3	1.5	.0	*	21.5	
	22+	.5	.3	.1	.3	1.6	2.3	.8	.2	.0	*	6.2	
	TOT %	8.7	6.7	3.7	5.0	10.8	10.2	5.4	4.2	.0	1.2	55.8	
TOT OBS													
TOT PCT		15.9	12.6	6.5	9.5	19.7	17.6	9.0	7.4	.0	1.6	100.0	14782

PERIOD: (PRIMARY) 1888-1973
(OVER-ALL) 1853-1973

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TABLE 10

PERCENT FREQUENCY OF CEILING HEIGHTS (FEET; NH >4/8) AND
OCCURRENCE OF NH <5/8 BY HOUR

HOURL (GMT)	000 149	150 209	300 599	600 999	1000 1999	2000 3499	3500 4999	5000 6499	6500 7999	8000+	TOTAL	NH <5/8 ANY HGT	TOTAL OBS
00003	.3	.2	1.2	6.8	14.7	6.9	3.3	.8	.1	.8	35.1	64.9	1329
06009	.1	.1	.8	5.4	12.4	6.7	3.3	.9	.5	.5	30.8	69.2	1480
12015	.3	.1	1.7	7.8	13.6	7.6	2.6	.7	.3	.7	35.4	64.6	1609
18021	.4	.1	.9	6.1	12.7	7.1	2.9	.2	.0	.6	30.9	69.1	1288
TOT PCT	.3	.1	1.2	6.6	13.4	7.0	3.0	.7	.2	.7	33.1	66.9	5706 100.0

TABLE 11

PERCENT FREQUENCY VSBY (NH) BY HOUR

HOURL (GMT)	<1/2	1/2<1	1<2	2<5	5<10	10+	TOTAL OBS
00003	.3	1.6	1.1	2.8	33.9	60.3	2766
06009	.2	1.8	1.4	2.9	42.6	51.1	4467
12015	.1	1.2	1.2	2.1	33.6	61.8	3587
18021	.3	2.2	1.5	1.9	43.2	50.9	4488
TOT PCT	.2	1.8	1.3	2.4	39.1	55.2	15308 100.0

TABLE 12

CUMULATIVE PCT FREQ OF RANGES OF VSBY (NH) AND/OR
CEILING HGT (FEET; NH >4/8), BY HOUR

HOURL (GMT)	<150 <50YD	<600 <1	<1000 <5	1000+ AND 5+	NH <5/8 AND 5+	TOTAL OBS
00003	.3	2.0	11.1	28.2	60.7	1213
06009	.2	1.5	9.1	26.8	64.2	1288
12015	.3	2.2	11.9	26.2	61.9	1505
18021	.4	1.7	9.5	25.3	65.2	1152
TOT PCT	.3	1.9	10.4	26.7	62.9	5156 100.0

TABLE 13

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY TEMP

TEMP F	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	TOTAL OBS	PCT FREQ
85/89	.0	*	.0	*	.0	.0	.0	.0	*	*
80/84	.0	.0	.1	*	*	*	*	*	.1	.1
75/79	.0	*	.1	.2	.2	.6	.5	.1	1.7	1.7
70/74	.0	*	*	.3	1.7	2.5	3.9	2.4	10.9	10.9
65/69	.0	*	.2	1.1	4.3	6.8	7.8	3.8	24.0	24.0
60/64	.0	*	.4	2.4	7.3	8.9	7.2	4.3	30.6	30.6
55/59	.0	.0	.6	2.6	6.1	7.8	5.3	2.2	24.9	24.9
50/54	.0	*	.1	.7	2.0	1.8	2.0	*	7.3	7.3
45/49	.0	.0	*	.0	.1	.2	.1	*	.4	.4
TOTAL PCT	.0	.1	1.5	7.4	21.7	28.5	27.0	13.9	7443	100.0

TABLE 14

PERCENT FREQUENCY OF WIND DIRECTION BY TEMP

N	NE	E	SE	S	SW	W	NW	VAR	CALM
*	*	.0	.0	.0	.0	*	*	.0	.0
*	*	*	.0	*	*	*	*	.0	*
.7	.5	.1	.1	.1	.1	.1	.1	.0	*
3.6	3.1	.7	.6	1.2	.5	.3	.6	.0	.2
4.7	4.4	2.3	2.4	4.8	2.4	1.1	1.5	.0	.5
4.5	3.0	2.2	3.6	7.1	5.0	2.8	2.0	.0	.4
2.1	1.4	1.3	1.8	5.7	6.4	3.9	1.9	.0	.4
.2	*	.1	.3	1.6	2.9	1.5	.6	.0	.1
*	.0	.0	.0	*	.2	.1	*	.0	.0
15.9	12.5	6.6	8.7	20.6	17.5	9.7	6.7	.0	1.8

TABLE 15

MEANS, EXTREMES AND PERCENTILES OF TEMP (DEG F) BY HOUR

HOURL (GMT)	MAX	99%	95%	50%	5%	1%	MIN	MEAN	TOTAL OBS
00003	84	74	71	64	57	54	46	64.0	4397
06009	88	73	70	63	57	54	43	63.6	5683
12015	82	70	68	62	56	53	46	62.4	4337
18021	83	71	68	61	55	52	45	61.8	5979
TOT	88	73	69	63	56	53	43	62.9	20396

TABLE 16

PERCENT FREQUENCY OF RELATIVE HUMIDITY BY HOUR

HOURL (GMT)	0-29	30-39	40-49	50-59	60-69	70-79	80-89	90-100	MEAN	TOTAL OBS
00003	.0	12.8	23.2	28.5	24.6	10.9	74	1553		
06009	.0	9.8	24.7	29.3	25.1	11.1	75	2046		
12015	.0	7.1	19.9	28.5	28.9	15.5	77	2030		
18021	.0	6.9	18.6	27.3	29.3	17.9	78	2050		
TOT	0	683	1650	2188	2085	1073	76	7679		

PERIOD: (PRIMARY) 1885-1973
(OVER-ALL) 1855-1973

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TABLE 17

PCT FREQ OF AIR TEMPERATURE (DEG F) AND THE OCCURRENCE OF FOG (WITHOUT PRECIPITATION)
VS AIR-SEA TEMPERATURE DIFFERENCE (DEG F)

AIR-SEA TMP DIF	45 48	49 52	53 56	57 60	61 64	65 68	69 72	73 76	77 80	81 84	85 88	TOT	W FOG	NO FOG
17/19	.0	.0	.0	.0	.0	.0	.0	.0	.0	*	.0	1	.0	*
14/16	.0	.0	.0	.0	.0	*	.0	*	*	*	*	8	.0	.1
11/13	.0	.0	.0	.0	*	*	.1	*	*	*	*	23	*	.2
9/10	.0	.0	.0	*	.1	.1	.1	*	.0	.0	.0	45	*	.3
7/8	.0	.0	.0	.1	.2	.2	.3	.1	.1	.0	.0	123	.1	1.0
6	.0	.0	*	.1	.1	.2	.2	.2	.1	*	.0	101	*	.8
5	.0	.0	*	.1	.3	.4	.4	.4	.1	*	.0	200	*	1.7
4	.0	*	*	.3	.9	.8	.7	.4	.1	*	.0	374	.1	3.1
3	.0	*	.1	.4	.8	.8	1.0	.4	.1	*	.0	614	.1	3.5
2	.0	*	.2	.8	1.7	1.8	1.8	.7	.1	*	.0	800	.3	6.6
1	.0	*	.3	1.2	2.0	1.9	1.9	.6	*	.0	.0	922	.3	7.6
0	.0	.1	.6	2.5	3.1	2.8	2.4	.6	*	.0	.0	1414	.5	11.7
-1	.0	.1	.8	2.2	2.5	2.1	1.7	.2	.0	.0	.0	1103	.2	9.3
-2	.0	.2	1.1	3.1	3.4	2.6	1.3	.2	*	.0	.0	1386	.3	11.6
-3	*	.1	1.4	2.8	2.2	2.0	.7	*	*	.0	.0	1084	.2	9.1
-4	.0	.3	1.7	2.4	2.7	1.8	.3	*	.0	.0	.0	1069	.2	9.0
-5	*	.5	1.6	2.3	1.7	1.1	.2	*	.0	.0	.0	866	.1	7.3
-6	*	.3	1.2	1.4	1.2	.6	.1	.0	.0	.0	.0	557	.1	4.7
-7/-8	*	.5	1.7	1.7	1.4	.3	*	*	.0	.0	.0	656	.1	5.5
-9/-10	*	.4	1.0	.8	.4	.1	*	*	.0	.0	.0	328	*	2.8
-11/-13	.1	.2	.5	.3	.1	*	*	.0	.0	.0	.0	138	*	1.2
-14/-16	.0	.1	.1	*	*	.0	.0	.0	.0	.0	.0	23	*	.2
TOTAL												11635		
PCT	.2	2.8	12.2	22.5	25.0	19.6	12.9	4.0	.7	.1	*	100.0	2.7	97.3

PERIOD: (OVER-ALL) 1963-1973

TABLE 18

PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	N						PCT	NE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.2	.9	*	.0	.0	.0	1.1	.1	.7	*	.0	.0	.0	.8
1-2	.2	3.4	.9	.0	.0	.0	4.5	.2	2.9	.9	.0	.0	.0	4.0
3-4	.0	1.8	3.3	.2	.0	.0	5.3	*	1.3	2.4	.1	.0	.0	3.9
5-6	.0	.5	2.2	.3	.0	.0	3.0	.0	.3	1.3	.2	.0	.0	2.0
7	.0	*	.5	.2	*	.0	.8	.0	*	.5	.3	.0	*	.8
8-9	.0	.0	.2	.2	.0	.0	.4	.0	.0	.2	.1	*	.0	.2
10-11	.0	.0	.1	.1	.0	.0	.2	.0	.0	.0	.1	.0	.0	.1
12	.0	.0	.0	*	.0	.0	*	.0	.0	.0	.0	.0	.0	.0
13-16	.0	.0	*	*	.0	.0	.1	.0	.0	*	.1	.0	.0	.1
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.4	6.6	7.3	1.0	*	.0	15.3	.3	5.3	5.5	.8	*	*	11.9

HGT	E						PCT	SE						PCT
	1-3	4-10	11-21	22-33	34-47	48+		1-3	4-10	11-21	22-33	34-47	48+	
<1	.1	.5	.0	.0	.0	.0	.6	.1	.4	.1	.0	.0	.0	.6
1-2	.1	1.6	.3	.0	.0	.0	2.0	.1	1.7	.4	.0	.0	.0	2.2
3-4	*	1.2	.5	*	.0	.0	1.8	.1	1.2	1.4	.1	.0	.0	2.8
5-6	.0	.1	.6	.1	.0	.0	.8	.0	.2	.8	.1	*	.0	1.2
7	.0	.1	.1	.1	.0	.0	.3	*	.0	.3	.2	.0	.0	.5
8-9	.0	.0	.1	*	.1	.0	.2	.0	.0	.1	*	.1	.0	.2
10-11	.0	*	.0	.0	.0	.0	*	.0	.0	.1	.1	.0	.0	.3
12	.0	.0	.0	.0	*	.0	*	.0	.0	.0	.1	.0	.0	.1
13-16	.0	.1	.0	*	.0	.0	.1	.0	*	*	*	.0	.0	.0
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	*
26-32	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	*	.0	*
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
87+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
TOT PCT	.2	3.6	1.6	.3	.1	.0	5.8	.3	3.6	3.2	.7	.2	.0	7.9

PERIOD: (OVER-ALL) 1963-1973

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TABLE 18 (CONT)

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PCT FREQ OF WIND SPEED (KTS) AND DIRECTION VERSUS SEA HEIGHTS (FT)

HGT	S							SW							PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT	
<1	.3	.9	.4	.0	.0	.0	1.2	.2	.4	.1	.0	.0	.0	.7	
1-2	.1	3.1	1.2	.3	.0	.0	4.5	.1	3.1	1.0	.0	.0	.0	4.1	
3-4	.0	2.0	3.7	.3	.0	.0	6.0	.0	1.8	3.1	.3	.0	.0	5.2	
5-6	.0	.5	3.1	1.3	.1	.0	5.0	.0	.2	2.6	1.0	.1	.0	3.9	
7	.1	1.0	1.1	.6	.2	.0	2.3	.0	.1	1.2	1.1	.2	.0	2.4	
8-9	.0	.5	.2	.1	.1	.0	1.3	.0	.0	.3	.5	.2	.0	.9	
10-11	.0	.1	.2	.1	.0	.0	.4	.0	.0	.2	.6	.1	.0	.4	
12	.0	.0	.0	.2	.2	.0	.5	.0	.0	.0	.2	.1	.0	.5	
13-16	.0	.0	.0	.1	.0	.0	.1	.0	.0	.0	.0	.1	.0	.1	
17-19	.0	.0	.0	.1	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
23-25	.0	.0	.0	.0	.1	.1	.2	.0	.0	.0	.0	.0	.0	.0	
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	.3	5.6	8.4	4.0	.9	.1	19.3	
TOT PCT	.4	6.6	9.7	4.0	1.1	.2	21.9								

HGT	H							NW							PCT	TOTAL PCT
	1-3	4-10	11-21	22-33	34-47	48+	PCT	1-3	4-10	11-21	22-33	34-47	48+	PCT		
<1	.2	.4	.1	.0	.0	.0	.7	.2	.2	.1	.0	.0	.0	.7		
1-2	.0	1.8	.6	.0	.0	.0	2.5	.1	1.8	.3	.0	.0	.0	2.1		
3-4	.0	1.0	1.4	.2	.0	.0	2.6	.0	.7	1.2	.1	.0	.0	1.9		
5-6	.0	.2	1.4	.4	.0	.0	2.1	.0	.2	.8	.1	.0	.0	1.0		
7	.0	.0	.3	.3	.0	.0	.7	.0	.0	.2	.1	.0	.0	.3		
8-9	.0	.0	.2	.3	.0	.0	.5	.0	.0	.1	.0	.0	.0	.1		
10-11	.0	.0	.1	.1	.0	.0	.1	.0	.0	.0	.1	.0	.0	.1		
12	.0	.0	.0	.1	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0		
13-16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
17-19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
20-22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
23-25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
26-32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
33-40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
41-48	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
49-60	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
61-70	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
71-86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0		
87+	.0	.0	.0	.0	.0	.0	.0	.2	3.1	2.7	.4	.0	.0	6.4	97.9	
TOT PCT	.2	3.5	4.1	1.5	.1	.0	9.5									

WIND SPEED (KTS) VS SEA HEIGHT (FT)

HGT	0-3	4-10	11-21	22-33	34-47	48+	PCT	TOT OBS
<1	3.9	4.9	.3	.0	.0	.0	9.1	
1-2	1.0	19.2	5.5	.0	.0	.0	25.7	
3-4	.2	10.9	16.8	1.2	.0	.0	29.1	
5-6	.1	2.2	12.9	3.5	.2	.0	18.9	
7	.1	.3	4.0	3.3	.3	.1	8.0	
8-9	.0	.0	1.6	1.7	.6	.0	3.9	
10-11	.0	.1	.5	1.3	.3	.0	2.2	
12	.0	.0	.1	.6	.1	.1	.9	
13-16	.0	.1	.1	.7	.3	.1	1.4	
17-19	.0	.0	.0	.1	.1	.0	.2	
20-22	.0	.0	.0	.1	.1	.1	.1	
23-25	.0	.0	.0	.0	.1	.1	.2	
26-32	.0	.0	.0	.0	.1	.0	.0	
33-40	.0	.0	.0	.0	.0	.0	.0	
41-48	.0	.0	.0	.0	.0	.0	.0	
49-60	.0	.0	.0	.0	.0	.0	.0	
61-70	.0	.0	.0	.0	.0	.0	.0	
71-86	.0	.0	.0	.0	.0	.0	.0	
87+	.0	.0	.0	.0	.0	.0	.0	3810
TOT PCT	5.3	37.6	41.8	12.9	2.4	.3	100.0	

PERIOD: (OVER-ALL) 1949-1972

TABLE 19

PERCENT FREQUENCY OF WAVE HEIGHT (FT) VS WAVE PERIOD (SECONDS)

PERIOD (SEC)	<1	1-2	3-4	5-6	7	8-9	10-11	12	13-16	17-19	20-22	23-25	26-32	33-40	41-48	49-60	61-70	71-86	87+	TOTAL	MEAN HGT
<6	1.4	8.0	11.4	7.2	3.2	1.1	.7	.3	.2	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	1620	4
6-7	.0	.9	7.1	10.8	7.2	3.4	1.4	1.0	.7	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	1590	6
8-9	.0	.3	1.9	4.2	4.4	2.5	1.9	1.1	1.2	.4	.3	.1	.2	.0	.0	.0	.0	.0	.0	887	8
10-11	.0	.2	.8	1.0	1.2	1.1	.8	.6	.5	.3	.1	.1	.0	.0	.0	.0	.0	.0	.0	316	8
12-13	.0	.0	.3	.1	.4	.2	.3	.3	.4	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	112	10
>13	.0	.0	.0	.2	.1	.1	.0	.0	.2	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	43	11
INDET	1.4	.7	1.0	1.0	.3	.3	.1	.1	.2	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	260	4
TOTAL PCT	2.8	10.0	22.4	24.6	17.0	8.7	5.2	3.4	3.4	1.1	.8	.3	.3	.0	.0	.0	.0	.0	.0	4828	6

PERIOD: (PRIMARY) 1888-1973
(OVER-ALL) 1855-1973

TABLE 20

AREA 0008 CAPE HOWE NE
36.05 130.8E

PERCENT FREQUENCY OF OCCURRENCE OF SEA TEMP (DEG F) BY MONTH

SEA TMP DEG F	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANN	PCT
96+	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
95/96	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
93/94	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
91/92	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
89/90	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
87/88	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
85/86	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
83/84	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1	*
81/82	.0	.1	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	4	*
79/80	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	9	*
77/78	.5	.8	.7	.3	.0	.0	.0	.0	.0	.0	.0	.0	41	.2
75/76	2.0	3.8	2.9	.9	.2	.0	.0	.0	.0	.0	.0	.1	164	.9
73/74	5.4	13.1	11.5	3.9	1.1	.1	.0	.0	.0	.1	.3	1.2	608	3.2
71/72	18.6	23.6	21.9	12.1	2.4	.2	.1	.0	.1	.4	.9	5.1	1408	7.5
69/70	26.3	28.1	25.0	19.4	8.3	1.2	.3	.0	.5	.7	3.8	18.9	2151	11.5
67/68	22.6	17.2	19.5	25.4	14.4	.6	.6	.6	1.2	2.9	10.3	23.2	2308	12.3
65/66	12.8	6.6	11.2	17.7	20.2	10.6	4.5	2.9	5.4	9.5	19.5	23.2	2274	12.1
63/64	7.9	4.3	4.9	13.0	26.8	23.4	11.6	8.6	16.5	21.9	26.6	15.1	2801	15.0
61/62	2.7	1.5	1.5	4.6	13.4	22.7	18.5	18.8	19.9	24.8	17.5	7.9	2337	12.5
59/60	.6	.2	.3	1.9	7.8	19.8	27.7	28.4	22.9	20.7	12.8	4.3	2205	11.8
57/58	.2	.4	.1	.6	3.3	8.6	19.3	21.9	16.4	12.6	6.4	.9	1348	7.2
55/56	.1	.1	.1	.1	1.7	4.9	12.3	12.5	12.1	5.2	1.1	.1	744	4.0
53/54	.0	.0	.0	.1	.1	1.3	3.2	4.4	3.6	.8	.7	.0	209	1.1
51/52	.0	.0	.0	.0	.2	.9	1.2	1.6	1.2	.2	.2	.0	81	.4
49/50	.0	.0	.0	.0	.1	.2	.6	.2	.3	.2	.0	.0	24	.1
47/48	.0	.0	.0	.0	.1	.1	.1	.1	.0	.0	.0	.0	4	*
45/46	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
43/44	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
41/42	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
39/40	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
37/38	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
35/36	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
33/34	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
31/32	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
29/30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
27/28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
<27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.0
TOTAL	1661	1566	1845	1505	1560	1504	1444	1395	1521	1538	1844	1538	18721	100.0
MEAN	63.5	69.7	69.3	67.3	64.3	61.5	59.4	59.0	59.8	61.2	63.2	66.1	64.1	

TABLE 21

PRESSURE (MB)

AVERAGE BY HOUR (GMT)

MO	0000	0300	0600	0900	1200	1500	1800	2100	MEAN	TOTAL OBS
JAN	1015	1012	1013	1012	1015	1012	1013	1011	1013	901
FEB	1015	1015	1013	1014	1015	1014	1013	1014	1014	976
MAR	1016	1015	1015	1016	1017	1017	1015	1015	1016	1159
APR	1019	1018	1017	1017	1018	1016	1016	1018	1017	972
MAY	1019	1020	1017	1019	1019	1019	1018	1019	1019	1017
JUN	1018	1017	1018	1019	1019	1017	1018	1018	1018	915
JUL	1018	1017	1016	1017	1018	1017	1017	1018	1017	961
AUG	1018	1018	1017	1018	1017	1016	1016	1018	1017	872
SEP	1017	1017	1015	1016	1016	1017	1015	1018	1016	839
OCT	1016	1015	1014	1014	1016	1012	1014	1015	1015	897
NOV	1013	1014	1013	1014	1013	1014	1012	1014	1013	921
DEC	1013	1014	1011	1017	1013	1013	1011	1013	1012	780
ANN	1016	1016	1015	1016	1016	1015	1015	1016	1016	11210
OBS	1290	1377	1943	962	1730	951	2049	908		

PERCENTILES

MO	MIN	1%	5%	25%	50%	75%	95%	99%	MAX
JAN	990	996	1002	1009	1014	1017	1023	1025	1027
FEB	994	997	1003	1010	1014	1018	1023	1027	1031
MAR	990	998	1004	1011	1016	1020	1025	1029	1035
APR	991	996	1003	1013	1018	1023	1029	1032	1036
MAY	990	1000	1005	1014	1019	1024	1030	1033	1036
JUN	988	996	1003	1012	1019	1024	1030	1035	1040
JUL	984	990	1002	1012	1018	1024	1030	1033	1036
AUG	984	995	1002	1011	1018	1023	1029	1033	1038
SEP	982	992	1002	1012	1017	1021	1028	1032	1034
OCT	991	994	1000	1010	1016	1021	1026	1029	1032
NOV	990	994	1000	1008	1014	1019	1024	1027	1030
DEC	993	998	1001	1008	1013	1017	1023	1026	1030

Volume	Area	Name	Approximate Central Location
1	1	Princess Charlotte Bay	14.3°S 146.2°E
	2	Cairns	17.4°S 148.1°E
	3	Cumberland Islands	20.3°S 150.3°E
	4	Rockhampton	23.3°S 152.8°E
	5	Brisbane	26.9°S 154.7°E
	6	Coffs Harbour	30.6°S 154.6°E
	7	Sydney	33.7°S 153.4°E
	8	Cape Howe NE	36.5°S 152.6°E
2	9	Melbourne SE	39.6°S 147.5°E
	10	Tasmania East	43.2°S 149.7°E
	11	Tasmania West	43.3°S 144.1°E
	12	Cape Nelson	39.4°S 141.4°E
	13	Spencer Gulf	35.4°S 137.1°E
	14	Australian Bight SE	36.5°S 132.5°E
	15	Australian Bight SW	35.5°S 127.0°E
3	16	Esperance Bay S	35.6°S 121.1°E
	17	Cape Leeuwin	34.4°S 113.8°E
	18	Perth NW	30.1°S 112.7°E
	19	Shark Bay	25.5°S 111.5°E
	20	Barrow Island	19.1°S 115.9°E
	21	Broome	16.5°S 121.4°E
	22	Cape Talbot	13.0°S 127.0°E